

REPORT NUMBER: SINCAP-KAR-18-003

**NEW CAR ASSESSMENT PROGRAM (NCAP)
MOVING DEFORMABLE BARRIER SIDE IMPACT TEST**

**FCA US LLC
2018 JEEP COMPASS SPORT 5-DOOR MPV**

NHTSA No: M20180308

**PREPARED BY:
KARCO ENGINEERING, LLC.
9270 HOLLY ROAD
ADELANTO, CA 92301**



NOVEMBER 21, 2017

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF CRASHWORTHINESS STANDARDS
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Division Chief, New Car Assessment Program
NHTSA, Office of Crashworthiness Standards

Date: _____

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16. Abstract

A 55 / 28 km/h 90° Moving Deformable Barrier NCAP Side Impact Test was conducted on the subject 2018 Jeep Compass Sport 5-door MPV in accordance with the specifications of the Office of Crash Worthiness Standards Test Procedure for the generation of consumer information on vehicle side crash protection. The test was conducted at the KARCO Engineering, LLC. facility in Adelanto, California on November 7, 2017.

The impact velocity of the Moving Deformable Barrier was 62.08 km/h and the outside ambient temperature at the struck (driver's) side of the vehicle was 23.9° C. The target vehicle's maximum post-test static crush was 209 mm located at level 3. The test vehicle's occupant performance data is as follows:

Measurement Description	Driver ATD (ES-2re)		
	Units	IARV	Result
Head Injury Criteria (HIC ₃₆)		1000	101.7
Maximum Thoracic Rib Deflection	mm	44	21
Total Abdominal Force	N	2500	598
Pubic Symphysis Force	N	6000	1489

Measurement Description	Passenger ATD (SID-IIs)		
	Units	IARV	Result
Head Injury Criteria (HIC ₃₆)		1000	101.1
Resultant Lower Spine Acceleration	g	82	56
Total Pelvic Force (Sum of Acetubular and Iliac Forces)	N	5525	4130
Maximum Thoracic Rib Deflection	mm	38*	21
Maximum Abdominal Rib Deflection	mm	45*	36

The doors on the struck side of the vehicle did not separate from the body at the hinges or latches. The opposite side doors did not open during the side impact event.

* Proposed IARV

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SECTION 1
TEST PURPOSE AND PROCEDURE

This moving deformable barrier side impact test is part of the MY 2018 New Car Assessment Program Side Impact Test Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under contract number DTNH22-14-D-00355L. The purpose of this test is to generate comparative side impact performance in a 2018 Jeep Compass Sport 5-Door MPV. The side impact test was conducted in accordance with the Office of Crashworthiness Standard's Laboratory Test Procedure dated October 2015.

SECTION 2

SUMMARY OF TEST RESULTS

A 2018 Jeep Compass Sport 5-Door MPV was impacted on the left (driver's) side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 62.08 km/h (38.57 mph). The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by KARCO Engineering, LLC. in Adelanto, California, on November 7, 2017. Pre- and post-test photographs of the test vehicle, the MDB and the dummy (ES-2re and SID-IIs) are included in Appendix A of this report.

The dummies were placed in the driver and left rear designated seating position according to instructions specified in the OCWS Side Impact Laboratory Test Procedure, dated October 2015. The side impact event was documented by 11 cameras. Camera locations are included in Data Sheet No. 5 of this report.

The dummies were instrumented in the following manner:

DRIVER ATD (ES-2re)

Primary and redundant head CG tri-axial accelerometers

Chest upper rib, middle rib and lower rib y-axis displacement potentiometers

Abdomen forward, middle, and rear y-axis load cells

Lower spine (12) tri-axial accelerometers

Pubic symphysis y-axis load cell

PASSENGER ATD (SID-IIs)

Primary and redundant head CG tri-axial accelerometers

Chest upper rib, middle rib and lower rib y-axis displacement potentiometers

Abdomen upper rib and lower rib y-axis displacement potentiometers

Lower spine (12) tri-axial accelerometers

Acetabulum and iliac wing y-axis load cells

Appendix B contains the vehicle and dummy response data. Dummy configuration and performance verification data can be found in Appendix C of this report. Appendix D of this report contains the test equipment and instrumentation calibration data.

Dummy injury readings were recorded as follows:

Measurement Description	Units	Driver ATD (ES-2re)	
		Threshold	Result
Head Injury Criteria (HIC ₃₆)		1000	101.7
Maximum Thoracic Rib Deflection	mm	44	21
Combined Abdominal Force	N	2500	598
Pubic Symphysis Force	N	6000	1489

Measurement Description	Units	Passenger ATD (SID-IIs)	
		Threshold	Result
Head Injury Criteria (HIC ₃₆)		1000	101.1
Lower Spine (T12) Resultant Acceleration	g	82	56
Total Pelvic Force (sum of acetabular and iliac forces)	N	5525	4130
Maximum Thoracic Rib Deflection	mm	38*	21
Maximum Abdominal Rib Deflection	mm	45*	36

*Proposed IARV

Supplemental restraint information is given below:

Restraint Type	Left Front (Driver) Occupant Location 1		Left Rear (Passenger) Occupant Location 4	
	Mounted	Deployed	Mounted	Deployed
Frontal Airbag	Yes	No	No	
Knee Airbag	Yes	No	No	
Side Airbag 1 (Curtain)	Yes	Yes	Yes	Yes
Side Airbag 2 (Torso/Pelvis)	Yes	Yes	No	
Seat Belt Pretensioner	Yes	Yes	No	
Seat Belt Load Limiter	Yes	Yes	No	
Other	No		No	

GENERAL COMMENTS

The door on the struck side of the vehicle remained closed and latched. There was no separation at the hinges or latches. The door on the non-struck side remained closed and latched. There was no ATD value that exceeded its limit.

SECTION 3

OCCUPANT AND VEHICLE INFORMATION/DATA SHEETS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308

Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

CONVERSION FACTORS

Quantity	Typical Application	Std Units	Metric Unit	Multiply By
Mass	Vehicle Weight	lb	kg	0.4536
Linear Velocity	Impact Velocity	miles/hr	km/hr	1.609344
Length or Distance	Measurements	in	mm	25.4
Volume	Fuel Systems	gal	liter	3.785
Volume	Small Fluids	oz	mL	29.574
Pressure	Tire Pressures	lbf/in ²	kPa	6.895
Temperature	General Use	°F	°C	$=(T_f - 32)/1.8$
Force	Dynamic Forces	lbf	N	4.448
Moment	Torque	lbf-ft	N•m	1.355

DATA SHEET NO. 1

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

TEST VEHICLE INFORMATION AND OPTIONS

NHTSA Number	M20180308
Model Year	2018
Make	Jeep
Model	Compass
Body Style	5-Door MPV
VIN	3C4NJCAB0JT136962
Body Color	Bullet Silver Metallic
Odometer Reading (km / mi)	53 / 33
Engine Displacement (L)	2.4
Type / No. of Cylinders	Inline 4
Engine Placement	Transverse
Transmission Type	Manual
Transmission Speeds	6
Overdrive	Yes
Final Drive	FWD
Roof Rack	No
Sunroof / T-Top	No
Running Boards	No
Tilt Steering Wheel	No
Power Seats	No
Anti-Lock Brakes (ABS)	Yes

Traction Control System (TCS)	Yes
Auto-Leveling System	No
Automatic Door Locks	Yes
Power Window Auto-Reverse	Yes
Other Optional Feature	Yes
Driver Front Airbag	Yes
Driver Curtain Airbag	Yes
Driver Head/Torso Airbag	No
Driver Torso Airbag	No
Driver Torso/Pelvis Airbag	Yes
Driver Pelvis Airbag	No
Driver Knee Airbag	Yes
Rear Pass. Curtain Airbag	Yes
Rear Pass. Head/Torso Airbag	No
Rear Pass. Torso Airbag	No
Rear Pass. Torso/Pelvis Airbag	No
Rear Pass. Pelvis Airbag	No
Driver Seat Belt Pretensioner	Yes
Rear Pass. Seat Belt Pretensioner	No
Driver Load Limiter	Yes
Rear Pass. Load Limiter	No
Other Safety Restraint	No

Does Owner's Manual provide instructions to turn off automatic door locks? No

DATA FROM CERTIFICATION LABEL

Manufactured By	FCA US LLC
Date of Manufacture	Aug-17
Vehicle Type	MPV

GVWR (kg)	1996
GAWR Front (kg)	1076
GAWR Rear (kg)	928

VEHICLE SEATING AND CAPACITY WEIGHT INFORMATION

Measured Parameter	Front	Rear	Third	Total	
Designated Seating Capacity	2	3		5	
Capacity Weight (VCW) (kg)				390.0	A
DSC x 68.04 (kg)				340.2	B
Cargo Weight (RCLW) (kg)				49.8	A-B

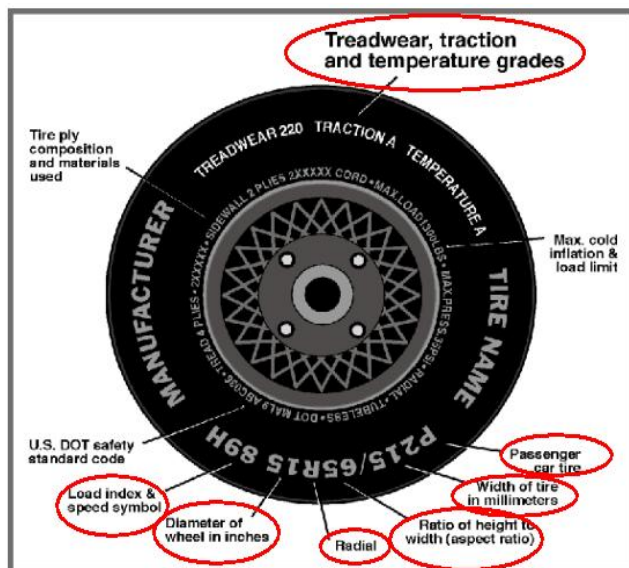
VEHICLE SEAT TYPE

Seating Location	Type of Seat Pan				Type of Seat Back		
	Bucket	Bench	Split Bench	Contoured	Fixed	Adjustable	
						w/ Lever	w/ Knob
Front Seat	Yes					Yes	
Rear or Second Row Seat		Yes			Yes		
Third Row Seat							

DATA SHEET NO. 1 ... (CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



Measured Parameter	Front	Rear
Max. Tire Pressure (kpa)	350	350
Cold Pressure (kPa)	240	220
Recommended Tire Size	P215/65/R16	P215/65/R16
Tire Size on Vehicle	P215/65/R16	P215/65/R16
Tire Manufacturer	Continental	Continental
Tire Model	Cross Contact	Cross Contact
Treadware	480	480
Traction Grade	A	A
Temperature Grade	A	A
Tire Plies Sidewall	1 Rayon	1 Rayon
Tire Plies Body	1 Rayon, 2 Steel, 2 Polyamide	1 Rayon, 2 Steel, 2 Polyamide
Load Index/Speed Symbol	98H	98H
Tire Material	Rayon, Steel, Polyamide	Rayon, Steel, Polyamide
DOT Safety Code Left	HWGV WD36 1817	HWGV WD36 1817
DOT Safety Code Right	HWGV WD36 1817	HWGV WD36 1817

DATA SHEET NO. 1 ... (CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

TIRE PRESSURES

	Units	LF	RF	LR	RR
As Delivered	kPa	230	230	230	240
Tire Placard	kPa	240	240	220	220
Owner's Manual	kPa	240	240	220	220
As Tested	kPa	240	240	220	220

MDB TIRE SPECIFICATIONS

	Units	Requirement	LF	RF	LR	RR
Tire Size		P205/75R15	P205/75R15	P205/75R15	P205/75R15	P205/75R15
Tire Pressure	kPa	200 ± 21	200	200	200	200

TEST VEHICLE AXLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)			Fully Loaded		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
Left	kg	451.5	288.0		484.0	368.0		491.0	366.5	
Right	kg	434.5	285.5		441.5	332.5		439.0	338.0	
Ratio	%	60.7%	39.3%	100.0%	56.9%	43.1%	100.0%	56.9%	43.1%	100.0%
Total	kg	886.0	573.5	1459.5	925.5	700.5	1626.0	930.0	704.5	1634.5

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value	
Total Delivered Weight (UVW)	kg	1459.5	A
Actual Weight of 2 P572 ATD Used	kg	125.0	B
Rated Cargo/Luggage Wt (RCLW)	kg	49.8	C
Calculated Vehicle Target Wt (TVTWT)	kg	1634.3	A+B+C

Does the measured As Tested Vehicle Weight lie within the required weight range (i.e. Calculated Test Vehicle Target Weight -4.5 kg to -9.0 kg)? Yes No

TEST VEHICLE ATTITUDE AND CG

Measurement Description	Units	Fully Loaded	As Tested	Meets Requirement***
LF	mm	822	827	Yes
RF	mm	830	834	Yes
LR	mm	830	836	Yes
RR	mm	836	833	Yes
Vehicle CG (Aft of Front Axle)	mm	1034	1133	
Vehicle CG (Left (+)/Right (-) from Longitudinal Centerline)	mm	10	37	

***The "As Tested" vehicle attitude measurements must be equal to or within ±10 mm of the "Fully Loaded" vehicle attitude measurements at each wheel well. Indicate "Yes" or "No" for "Meets Requirement"

DATA SHEET NO. 1 ... (CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

WEIGHT OF BALLAST AND VEHICLE COMPONENTS REMOVED TO MEET TVTW

Component Description	Weight (kg)
Tire Pump	4.5
Rear Carpeting	1.5
Ballast / Equipment Added	49.9

Test Height Adjustable Setting (If Applicable)	
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DATA SHEET NO. 2

SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT, AND FUEL SYSTEM DATA

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

SEAT POSITIONING

The driver's seat, front center seat (if applicable), and right front passenger's seat should be set to the mid-track, lowest, mid-angle position. The struck side rear passenger's seat, rear center seat, and non-struck side rear passenger's seats should be set to the rearmost, lowest, mid-angle position.

SCRL ANGLE RANGE

Seat	SCRL (°)		
	Max	Min	Mid
Driver Seat	5.0	0.0	2.5
Front Passenger Seat	4.8	0.0	2.4
Front Center Seat			
Struck Side Rear Seat	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Fixed

SEAT HEIGHT AND ANGLE

Seat	As Tested SCRL Angle (Mid) (°)	As Tested SCRCP Height (mm)	SCRCP Height Position	SCRCP Height (mm)		
				Rearmost	Mid Fore/Aft	Forwardmost
Driver Seat	2.5	660	Max			
			Mid	655	660	665
			Min			
Front Passenger Seat	2.4	667	Max			
			Mid	661	667	674
			Min			
Front Center Seat			Max			
			Mid			
			Min			
Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed

DATA SHEET NO. 2 ... (CONTINUED)

SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT, AND FUEL SYSTEM DATA

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

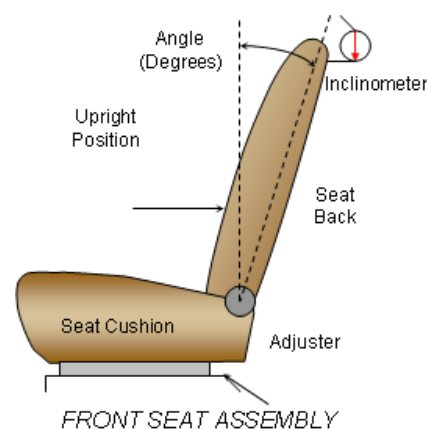
SEAT FORE/AFT POSITION

Seat	Total Fore/Aft Travel		Test Position From Forwardmost Position	
	mm	Detents*	mm	Detent*
Driver Seat	220	0	220	0
Front Passenger Seat	220	0	220	0
Front Center Seat				
Struck Side Rear Seat	Fixed	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Fixed	Fixed

*Detent zero (0) is the forward most detent

SEAT BACK ADJUSTMENT

The driver's seat back is positioned to the manufacturer's designated design angle. The right front passenger's seat back is positioned in a similar manner as the driver's seat back. The struck side rear seat back is fixed. The rear center and non-struck side rear outboard seat backs are positioned in a similar manner as the struck side rear seat back. Seat back angle is measured using outboard head restraint post.



SEAT BACK POSITION

Seat	Total Seat Back Angle Range		Test Position from Most Upright	
	Degrees	Detents*	Degree	Detent*
Driver Seat w/ Seated Dummy	70.0	32	1.7	15
Front Passenger Seat	101.8	32	1.7	15
Front Center Seat				
Struck Side Rear Seat w/Seated Dummy	Fixed	Fixed	22.9	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	22.9	Fixed
Rear Center Seat	Fixed	Fixed	22.9	Fixed

*Detent zero (0) is the forward most detent

DATA SHEET NO. 2 ... (CONTINUED)

SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT, AND FUEL SYSTEM DATA

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

SEAT BELT ANCHORAGE ADJUSTMENT

Seat belt anchorages are adjusted in accordance with the information provided by the manufacturer on Form No. 1. The positions are marked H, M1, ..., L from top to bottom.

	Total No. of Positions	Placed in Position
Driver Seat	4	0
Rear Seat	Fixed	Fixed

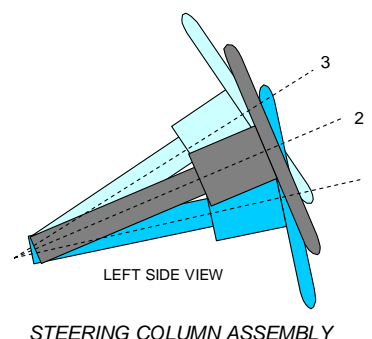
HEAD RESTRAINT ADJUSTMENT

The driver's head restraint is adjusted to the highest and most full forward in-use position. The struck-side rear passenger's head restraint is adjusted to the lowest and most full forward in-use position.

	Total No. of Positions	Placed in Position
Driver Seat	3	H
Rear Seat	Fixed	Fixed

STEERING COLUMN ADJUSTMENT

Steering wheel and column adjustments are made so that the steering wheel hub is at the center of the geometric locus it describes when it moves through its full range of motion. The steering column for this vehicle was fixed.



	Degrees	Fore-Aft Position (mm)
Lowermost - Position 1	24.9	103.0
Geometric Center - Position 2	27.6	126.5
Uppermost - Position 3	30.3	150.0
Telescoping Steering Wheel Travel	27.6	47.0
Test Position	27.6	127.0

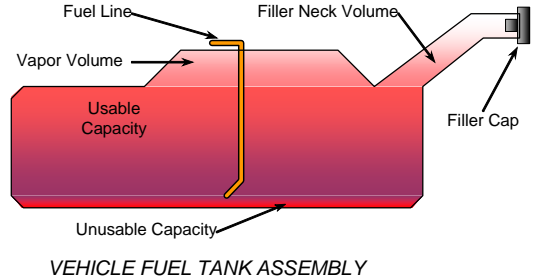
DATA SHEET NO. 2 ... (CONTINUED)

SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT, AND FUEL SYSTEM DATA

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

FUEL PUMP

The vehicle is equipped with an electronic fuel pump. The fuel pump starts pumping fuel when the key is in the "ON" position.



FUEL TANK CAPACITY

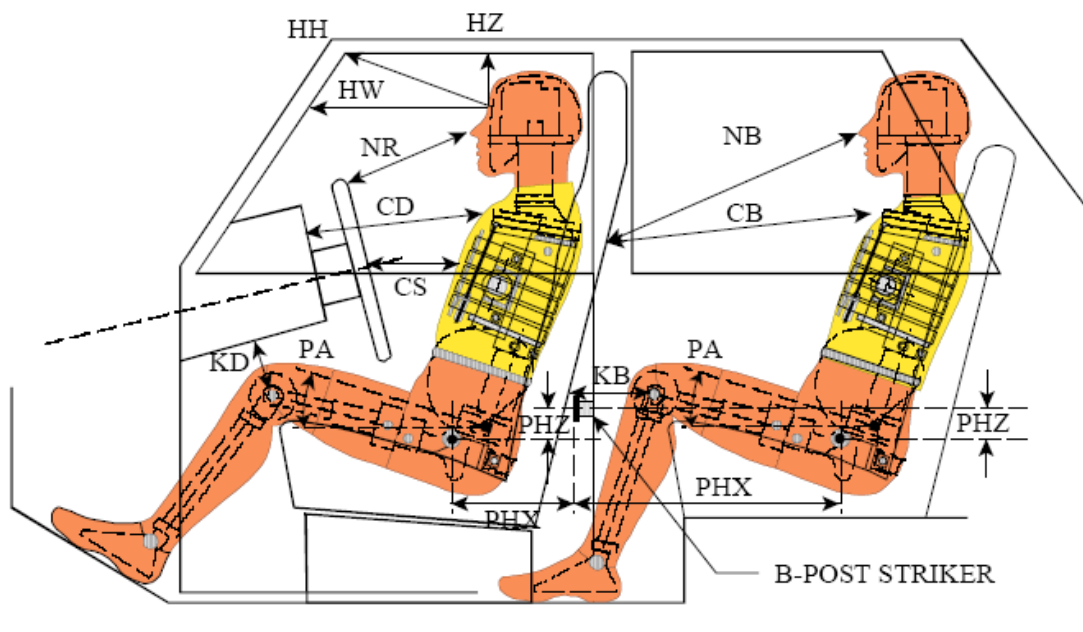
Description	Liters
Usable Capacity of "Standard Tank" (see Form No. 1)	51.10
Usable Capacity of "Optional Tank" (see Form No. 1)	
Usable Capacity of "Standard Tank" (see Owner's Manual)	
Usable Capacity of "Optional Tank" (see Owner's Manual)	
93% of Usable Capacity	47.52
Actual amount of Solvent Used in Test	47.50
1/3 of Usable Capacity	17.03

Is the Actual Amount of Solvent Used in the test equal to 93% ± 1% of the Usable Capacity stated in the Form No. 1? **Yes** **No**

DATA SHEET NO. 3

DUMMY LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



LEFT SIDE VIEW

NOTE: 2-DOOR VEHICLE SHOWN.
 REAR DUMMY PHX & PHZ
 MEASUREMENTS FOR A 4-DOOR
 VEHICLE WOULD USE THE C-POST
 STRIKER AS A REFERENCE POINT

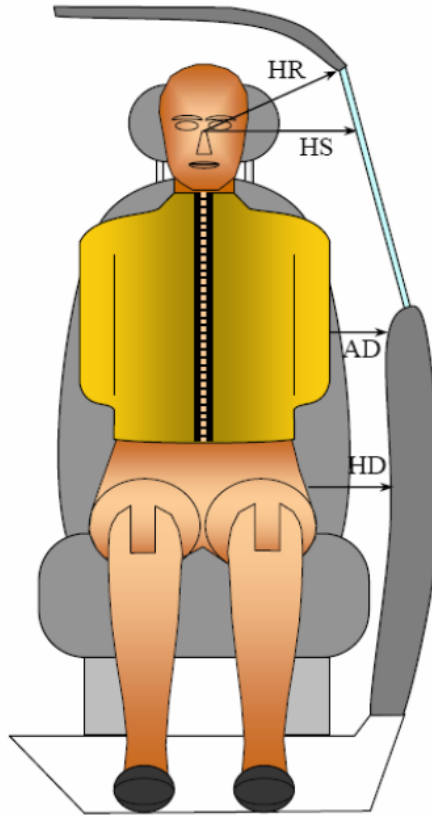
DUMMY LONGITUDINAL CLEARANCE DIMENSION INFORMATION

Driver Code	Pass. Code	Description	Driver		Passenger	
			Length (mm)	Angle (°)	Length (mm)	Angle (°)
HH		Head to Header	334			
HW		Head to Windshield	585			
HZ	HZ	Head to Roof	155		272	
NR	NB	Nose to Rim/Seat Back	421		548	
CD	CB	Chest to Dash/Seat Back	598		546	
CS		Chest to Steering Wheel	300			
KD(L)/KDA(L)°	KB(L)/KBA(L)°	Left Knee to Dash/Seat Back	144	31.8	308	9.8
KD(R)/KDA(R)°	KB(R)/KBA(R)°	Right Knee to Dash/Seat Back	159	16.4	315	7.9
PAX°	PAX°	Pelvic Tilt Angle X		15.2		19.0
	PAY°	Pelvic Tilt Angle Y		0.1		0.1
PHX	PHX	Hip Point to Striker (x-axis)	166.9		210.4	
PHZ	PHZ	Hip Point to Striker (z-axis)	112.8		199.0	

DATA SHEET NO. 4

DUMMY LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



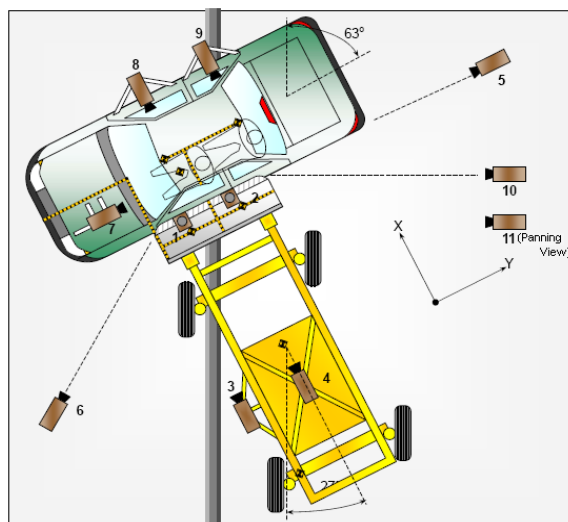
DUMMY LATERAL CLEARANCE DIMENSION INFORMATION

Code	Measurement Description	Units	Driver	Passenger
HR	Head to Side Header	mm	204	253
HS	Head to Side Window	mm	335	332
AD	Arm to Door	mm	94	156
HD	H-Point to Door	mm	175	176

DATA SHEET NO. 5

CAMERA AND INSTRUMENTATION DATA

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



CAMERA LOCATIONS AND DATA

No.	View	Coordinates (mm)			Lens Length (mm)	Operating Frame Rate (fps)
		X	Y	Z		
1	Overhead Overall	1220	2287	-5486	14	1000
2	Overhead Close-Up	609	2287	-5102	35	1000
3	Left Impact Point (MDB)	-2134	0	-1143	25	1000
4	Side Overall (MDB)	-3912	838	-1829	12.5	1000
5	Rear	-64	2485	-1348	85	1000
6	Left Front	-2266	-3564	-1475	24	1000
7	Driver Front (On-Board)	558	-145	569	13	1000
8	Driver Side (On-Board)	1634	1066	396	7	1000
9	Passenger Side (On-Board)					
10	Real Time Overall				Zoom	30
11	Real Time Inrun				Zoom	30

Reference: Impact Point Projected to Ground; +X = To Front of MDB, +Y = To Right of MDB, +Z = Down

*All measurements accurate to ± 6 mm

INSTRUMENTATION

Driver Dummy Channels	16
Passenger Dummy Channels	16
Vehicle Structure Accelerometers	20
MDB Accelerometers	5
Total	57

DATA SHEET NO. 6

TEST VEHICLE ACCELEROMETER LOCATIONS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



VEHICLE ACCELEROMETER PRE-TEST LOCATIONS

Loc. No.	Sensor Description	Coordinates (mm)		
		X	Y	Z
1	Vehicle CG	1745	5	411
2	Right Sill at Front Seat	2589	-748	407
3	Right Sill at Rear Seat	1671	-745	417
4	Left Sill at Front Door	2783	-750	310
5	Left Sill at Rear Door	1410	-748	308
6	A-Pillar Lower	2894	-861	667
7	A-Pillar Middle	2894	-861	887
8	B-Pillar Lower	1831	-714	661
9	B-Pillar Middle	1831	-714	887
10	Front Seat Track	2054	-153	482
11	Rear Seat Structure	1600	-394	418
12	Right Rear Occupant Compartment	1664	348	305
13	Engine Block	3524	282	924
14	Rear Floorpan Above Axle	811	18	574

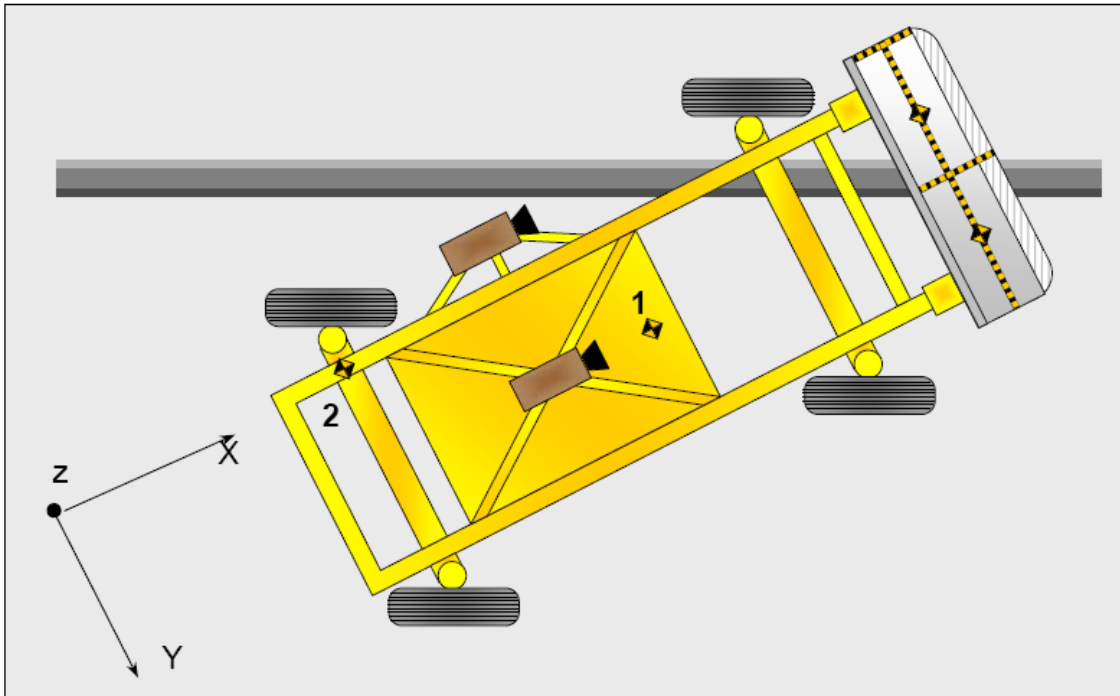
Reference: X – Rear surface of vehicle (+ forward)
 Y – Vehicle centerline (+ to right)
 Z – Ground plane (+ down)

DATA SHEET NO. 7

MDB ACCELEROMETER LOCATIONS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308

Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



MDB ACCELEROMETER LOCATIONS

Loc. No.	Accelerometer Location	Measurement		
		X	Y	Z
1	MDB CG	-1195	0	-430
2	MDB Rear	-2642	-593	-608

Reference: X – Face of MDB (+ forward)
 Y – MDB centerline (+ to right)
 Z – Ground plane (+ down)

DATA SHEET NO. 8

POST-TEST OBSERVATIONS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

TEST DUMMY INFORMATION AND CONTACT POINTS

Dummy Body Part	Front Seat Dummy (ES-2re)	Rear Seat Dummy (SID-IIs)
Face	Curtain Airbag	Curtain Airbag
Top of Head	None	Curtain Airbag
Left Side of Head	Curtain Airbag	Curtain Airbag
Back of Head	Headrest	Curtain Airbag
Left Shoulder	Curtain Airbag, Door Panel	Door Panel
Upper Torso	Side Airbag	Door Panel
Lower Torso	Side Airbag	Door Panel
Left Hip	Side Airbag, Door Panel	Door Panel
Left Knee	Door Panel	Door Panel

POST-TEST DOOR PERFORMANCE

Description	Struck Side		Non-Struck Side		Rear Hatch/Other
	Front	Rear	Front	Rear	
Remained Closed and Operational	No	No	Yes	Yes	Yes
Total Separation from Vehicle at Hinges or Latches	No	No	No	No	No
Latch or Hinge System Pulled Out of Their Anchorages	No	No	No	No	No
Disengaged from Latched Position	No	No	No	No	No
Latch Separated from Striker	No	No	No	No	No
Jammed Shut	Yes	Yes	No	No	No
If Door Opened at Striker, Record Width of Opening at Striker (mm)	N/A	N/A	N/A	N/A	N/A

DATA SHEET NO. 8 ... (CONTINUED)

POST-TEST OBSERVATIONS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

POST-TEST SEAT PERFORMANCE

Description	Struck Side		Non-Struck Side	
	Front	Rear	Front	Rear
Seat Movement Along Seat Track	No		No	
Seat Disengagement from Floor Pan	No		No	
Seat Back Movement from Initial Position	No		No	
Seat Back Collapse	No		No	

POST-TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	No separation
Sill Separation	No separation
Windshield Damage	None
Side Window Damage	None
Other Notable Effects	None

DATA SHEET NO. 8 ... (CONTINUED)

POST-TEST OBSERVATIONS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION

Restraint Type	Struck Side		Struck Side	
	Driver		Rear Passenger	
	Mounted	Deployed	Mounted	Deployed
Frontal Airbag	Yes	No		
Knee Airbag	Yes	No	No	
Side Airbag 1 (Curtain)	Yes	Yes	Yes	Yes
Side Airbag 2 (Torso/Pelvis)	Yes	Yes	No	
Seat Belt Pretensioner	Yes	Yes	No	
Seat Belt Load Limiter	Yes	Yes	No	
Other	No		No	

IMPACT POINT LOCATION DATA

Measured Parameter	Units	Tolerance	Value
Vehicle Wheel Base	mm		2631
Vertical Impact Reference Line (Aft of Front Axle)(Intended Impact Point)	mm		380
Actual Impact Point (Aft of Front Axle)	mm		379
Horizontal Offset (+ forward / - rearward)	mm	± 50 of Intended Impact Point	1
Vertical Offset (+ down / - up)	mm	± 20 of Intended Impact Point	10

DATA SHEET NO. 9**MDB SUMMARY OF RESULTS**

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

MDB SPECIFICATIONS

Measurement Description	Length (mm)
Overall Width of Framework Carriage	1251
Overall Length including Honeycomb Face	4023
Wheel Base of Framework Carriage	2595
CG location aft of Front Axle	1118

MDB WEIGHTS

	Units	Front Axle	Rear Axle	Total
Left	kg	402.0	298.0	700.0
Right	kg	377.0	290.0	667.0
Ratio	%	57.0%	43.0%	100.0%
Totals	kg	779.0	588.0	1367.0

SPEED AND IMPACT DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	62.08
Trap No. 2 Velocity (Redundant)	km/h	61.1 to 62.7	62.03
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	90.3
MDB Forward Line of Motion to Target Vehicle CL	degrees	62.5 to 63.5	63.3
MDB Crabbed Angle to MDB Forward Line of Motion	degrees	26.0 to 28.0	27.1

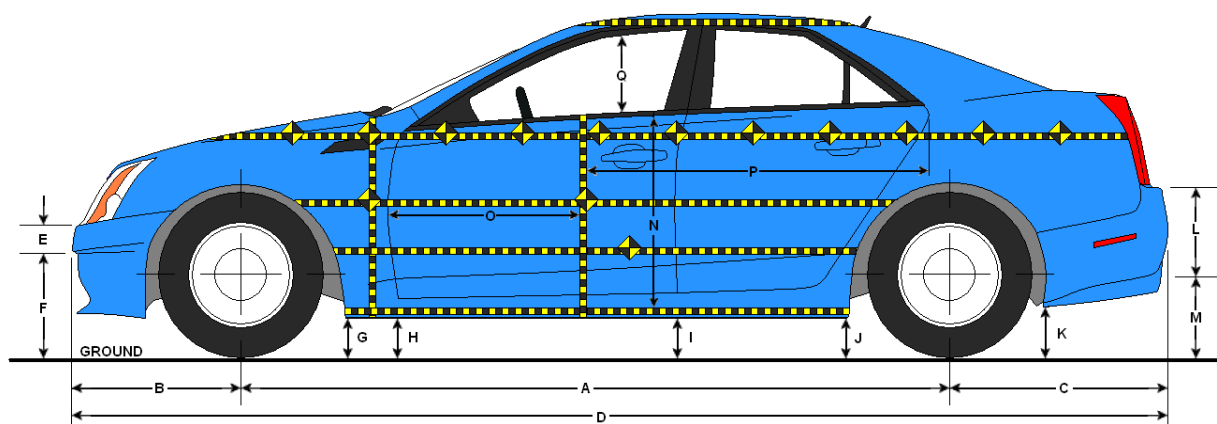
MAXIMUM STATIC CRUSH OF HONEYCOMB FACE

Vertical Location		From Centerline			Max. Crush (mm)
Row	Description	Height (mm)	Distance (mm)	Direction	
A	Center of Bumper	432	800	Left	219
B	Top of Bumper	533	800	Left	155
C	Mid Level	686	800	Left	162
D	Top of Stack	813	800	Left	187

DATA SHEET NO. 10

TEST VEHICLE PROFILE MEASUREMENTS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



LEFT SIDE VIEW

VEHICLE PRE- AND POST-TEST MEASUREMENT INFORMATION

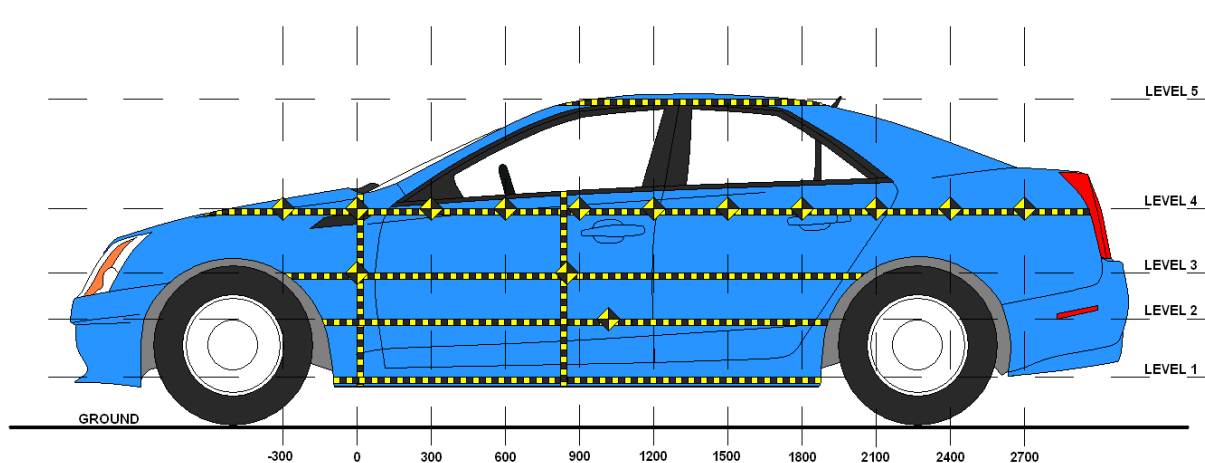
Code	Description	Pre-Test	Post-Test	Difference
A	Wheelbase	2631	2607	-24
B	Front Axle to FSOV	923	941	18
C	Rear Axle to RSOV	857	859	2
D	Total Length at Centerline	4410	4407	-3
E	Front Bumper Thickness	166	166	0
F	Front Bumper Bottom to Ground	462	458	-4
G	Sill Height at Front Wheel Well	357	366	9
H	Sill Height at Front Door Leading Edge	368	382	14
I	Sill Height at B-Pillar	315	335	20
J1	Sill Height at Rear Wheel Well	321	339	18
J2	Pinch Weld Height at Rear Wheel Well	258	241	-17
K	Sill Height Aft of Rear Wheel Well	333	328	-5
L	Rear Bumper Thickness	274	275	1
M	Rear Bumper Bottom to Ground	415	414	-1
N	Sill Height to Bottom of Front Window Sill	735	705	-30
O	Front Door Leading Edge to Impact CL	741	718	-23
P	Rear Door Trailing Edge to Impact CL	1276	1235	-41
Q	Front Window Opening	424	449	25
R	Right Side Length	3234	3235	1
S	Left Side Length	3233	3215	-18
T	Vehicle Width at B-Pillar	1778	1710	-68

All measurements in mm with tolerance of ± 3 mm

DATA SHEET NO. 11

TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



LEFT SIDE VIEW

MAXIMUM EXTERIOR CRUSH MEASUREMENTS

Level	Description	Height Above Ground (mm)	Maximum Exterior Static Crush	Distance from Impact
1	Sill Top	336	129	1350
2	Occupant H-Point	666	206	1650
3	Mid-Door	729	209	1650
4	Window Sill	965	124	1650
5	Window Top	1534	12	1800

DATA SHEET NO. 11 ... (CONTINUED)

TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308

Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17

EXTERIOR CRUSH MEASUREMENTS AT EACH LEVEL

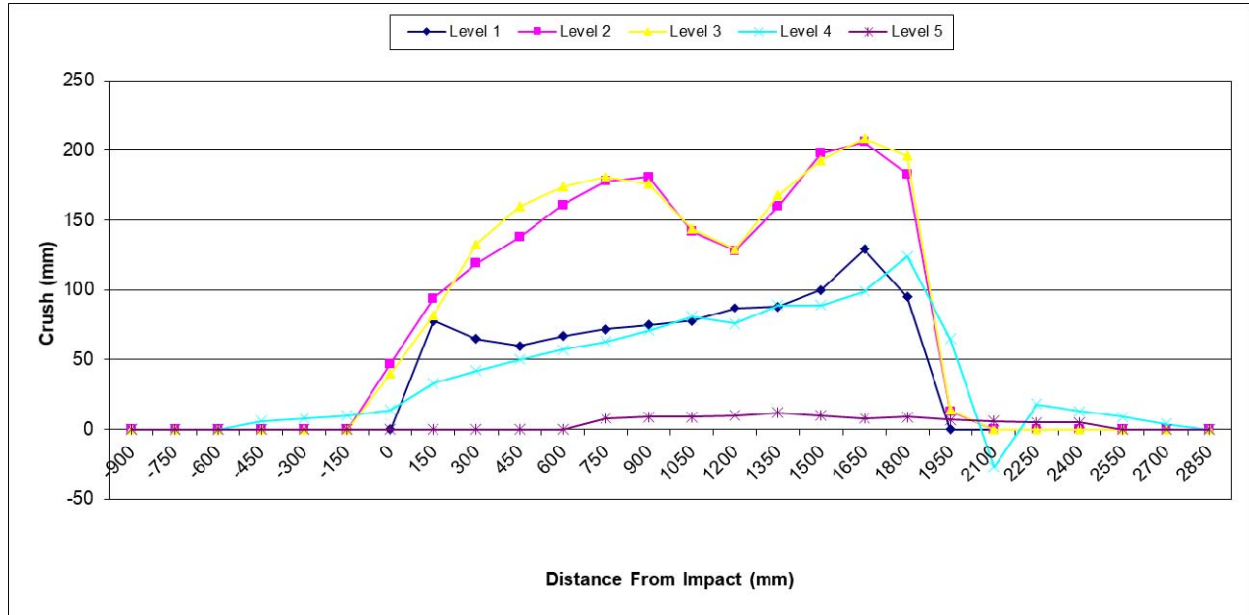
	Pre-Test (mm)					Post-Test (mm)					Difference (mm)				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-900															
-750															
-600															
-450				675					681					6	
-300				663					671					8	
-150				655					665					10	
0		603	600	648			650	640	662			47	40	14	
150	635	611	612	642		713	705	694	675		78	94	82	33	
300	652	620	617	635		717	739	750	677		65	119	133	42	
450	664	620	616	627		724	758	776	677		60	138	160	50	
600	664	619	615	622		731	780	789	679		67	161	174	57	
750	664	618	614	621	882	736	796	795	684	890	72	178	181	63	8
900	663	618	614	624	880	738	799	790	695	889	75	181	176	71	9
1050	663	618	614	622	883	741	760	758	703	892	78	142	144	81	9
1200	663	620	616	625	886	750	748	745	701	896	87	128	129	76	10
1350	666	623	618	628	889	754	783	786	717	901	88	160	168	89	12
1500	664	625	621	631	891	764	823	814	720	901	100	198	193	89	10
1650	644	619	617	634	895	773	825	826	733	903	129	206	209	99	8
1800	630	604	604	631	898	725	787	800	755	907	95	183	196	124	9
1950		595	595	625	902		608	609	690	909		13	14	65	7
2100				620	907				593	913				-27	6
2250				623	913				641	918				18	5
2400				629	920				642	925				13	5
2550				642					651					9	
2700				677					681					4	
2850															

DATA SHEET NO. 11 ... (CONTINUED)

TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308

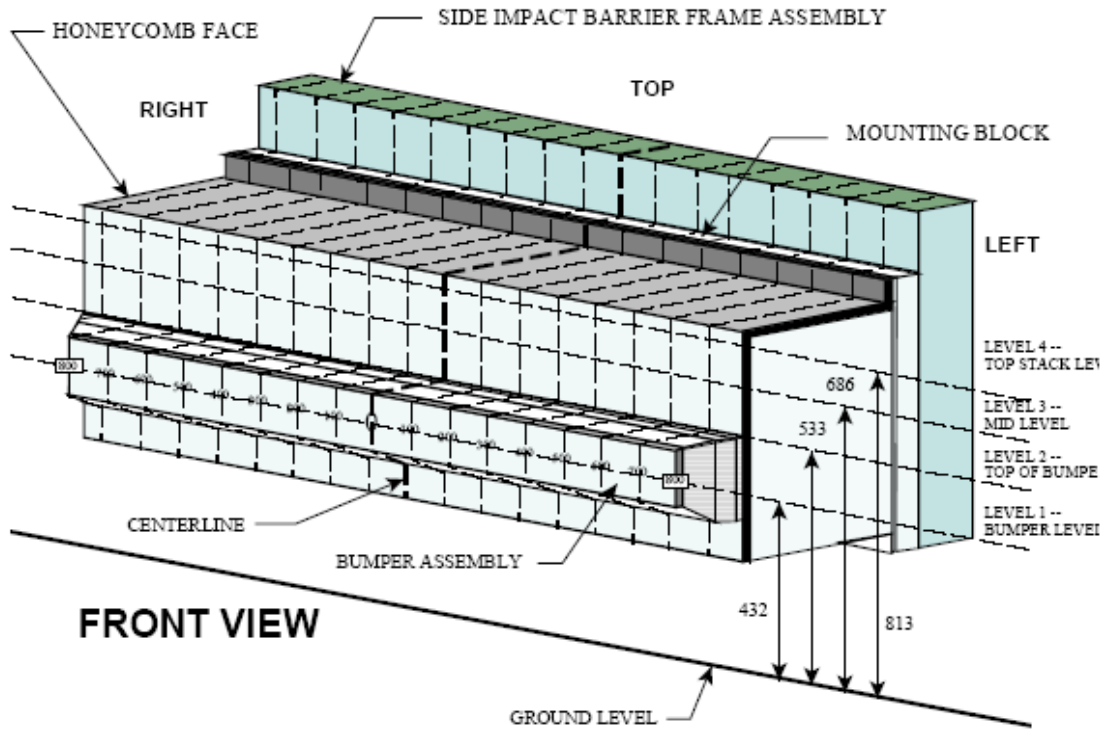
Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



DATA SHEET NO. 12

MDB EXTERIOR STATIC CRUSH MEASUREMENTS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



NOTE: Dimensions are shown in millimeters, mm

DEFORMABLE BARRIER STATIC CRUSH

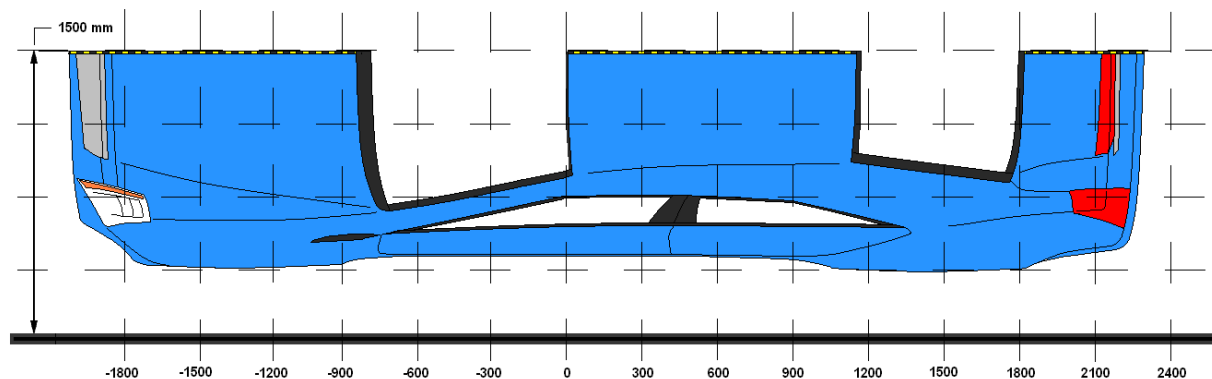
Stack Level	Distance Right of Center								C/L	Distance Left of Center							
	800	700	600	500	400	300	200	100		100	200	300	400	500	600	700	800
1	186	169	166	174	171	178	179	181	179	184	186	184	191	194	193	202	219
2	99	98	100	90	81	72	77	77	85	99	110	112	117	119	120	127	155
3	37	29	34	50	69	94	99	77	47	37	37	43	55	68	87	107	162
4	49	47	51	63	82	117	129	100	71	58	64	73	79	89	97	130	187

All dimensions in millimeters.

DATA SHEET NO. 13

VEHICLE AND MDB DAMAGE PROFILE DISTANCES

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



VEHICLE DAMAGE PROFILE DISTANCES

DPD	Distance From Impact Point (mm)	Level	Pre-Test (mm)	Post-Test (mm)	Crush (mm)
1	2700	4	677	681	4
2	2100	5	907	913	6
3	1500	2	625	823	198
4	750	3	614	795	181
5	150	2	611	705	94
6	-450	4	675	681	6

MDB DAMAGE PROFILE DISTANCES

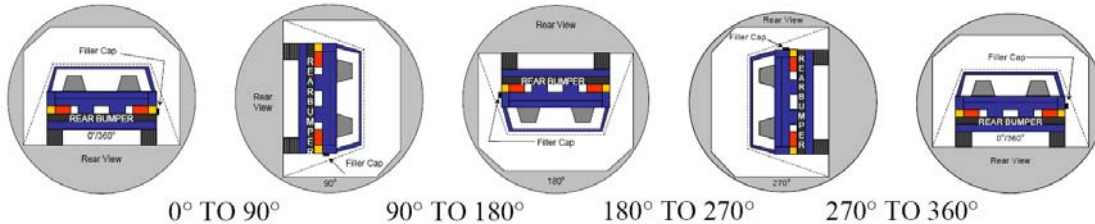
DPD	From MDB Centerline		Level	Crush (mm)
	Distance (mm)	Direction		
1	800	Left	1	219
2	500	Left	1	194
3	200	Left	1	186
4	200	Right	1	179
5	500	Right	1	174
6	800	Right	1	186

DATA SHEET NO. 14

FMVSS NO. 301 STATIC ROLLOVER RESULTS

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308
 Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17
 Temperature at Time of Impact: 23.9 °C Test Time: 12:22 P.M.

- A. From impact until vehicle motion ceases: 0 oz.
(Maximum allowable = 1 oz.)
- B. For the 5 minute period after motion ceases: 0 oz.
(Maximum allowable = 5 oz.)
- C. For the following 25 minutes: 0 oz.
(Maximum allowable = 1 oz./minute)
- D. Spillage Details: There was no Stoddard solvent spillage.



SOLVENT COLLECTION TIME TABLE IN SECONDS

Test Phase	Rotation Time	Hold Time	Total Time
0° To 90°	79	300	379
90° To 180°	81	300	381
180° To 270°	79	300	379
270° To 360°	82	300	382

FMVSS 301 SPILLAGE TABLE

Test Phase	First 5 Minutes	Sixth Minute	Seventh Minute	Eighth Minute
0° To 90°	0			
90° To 180°	0			
180° To 270°	0			
270° To 360°	0			

SOLVENT SPILLAGE LOCATION TABLE

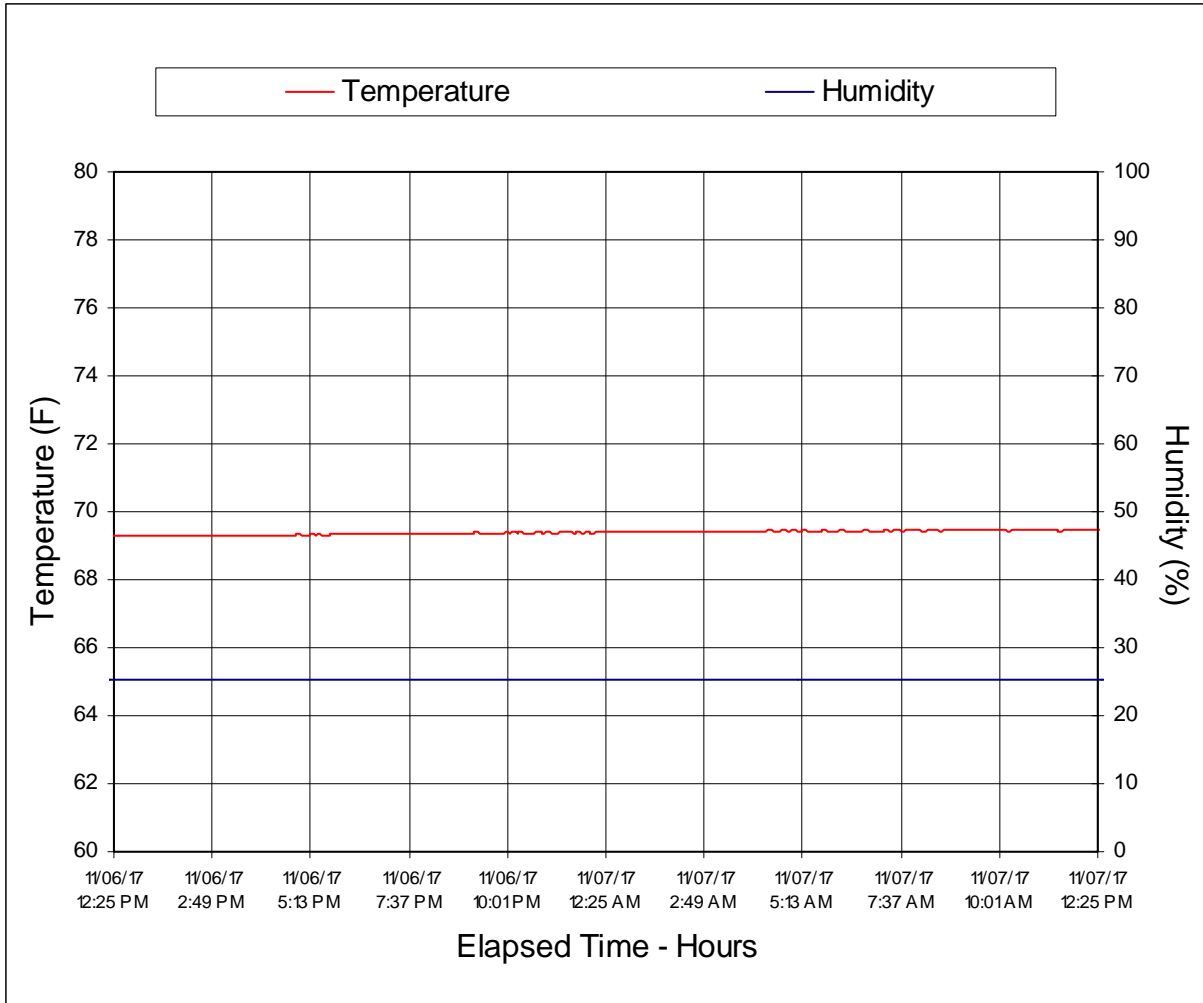
Test Phase	Spillage Location
0° To 90°	N/A
90° To 180°	N/A
180° To 270°	N/A
270° To 360°	N/A

DATA SHEET NO. 15

DUMMY/VEHICLE TEMPERATURE AND HUMIDITY STABILIZATION

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV NHTSA No. M20180308

Test Program: NCAP MDB Side Impact Test Test Date: 11/07/17



**APPENDIX A
PHOTOGRAPHS**

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102	Monroney Label	A-51
103	Driver Head Restraint Use and Adjustment Information from Vehicle Owner's Manual	A-52
104	Left Rear Passenger Head Restraint Use and Adjustment Information from Vehicle Owner's Manual	A-52



FIGURE 1. As-Delivered Right Front $\frac{3}{4}$ View of Test Vehicle



FIGURE 2. As-Delivered Left Rear $\frac{3}{4}$ View of Test Vehicle



FIGURE 3. Pre-Test Frontal View of Test Vehicle



FIGURE 4. Post-Test Frontal View of Test Vehicle



FIGURE 5. Pre-Test Left Front $\frac{3}{4}$ View of Test Vehicle



FIGURE 6. Post-Test Left Front $\frac{3}{4}$ View of Test Vehicle



FIGURE 7. Pre-Test Left Side View of Test Vehicle



FIGURE 8. Post-Test Left Side View of Test Vehicle



FIGURE 9. Pre-Test Left Rear $\frac{3}{4}$ View of Test Vehicle



FIGURE 10. Post-Test Left Rear $\frac{3}{4}$ View of Test Vehicle



FIGURE 11. Pre-Test Rear View of Test Vehicle



FIGURE 12. Post-Test Rear View of Test Vehicle



FIGURE 13. Pre-Test Right Side View of Test Vehicle



FIGURE 14. Post-Test Right Side View of Test Vehicle



FIGURE 15. Pre-Test Overhead View of Test Area

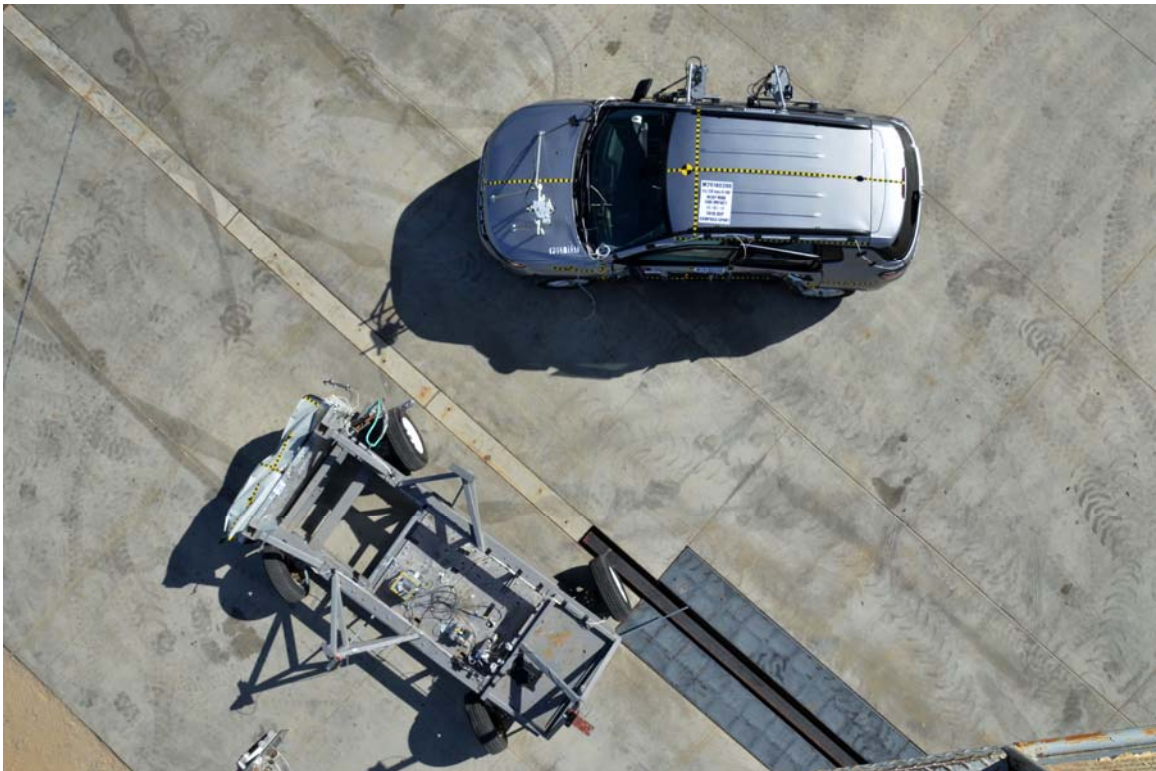


FIGURE 16. Post-Test Overhead View of Test Area



FIGURE 17. Pre-Test Left Side View of MDB Positioned Against Side of Test Vehicle



FIGURE 18. Pre-Test Right Side View of MDB Positioned Against Side of Test Vehicle



FIGURE 19. Pre-Test Close-Up View of Impact Point Target

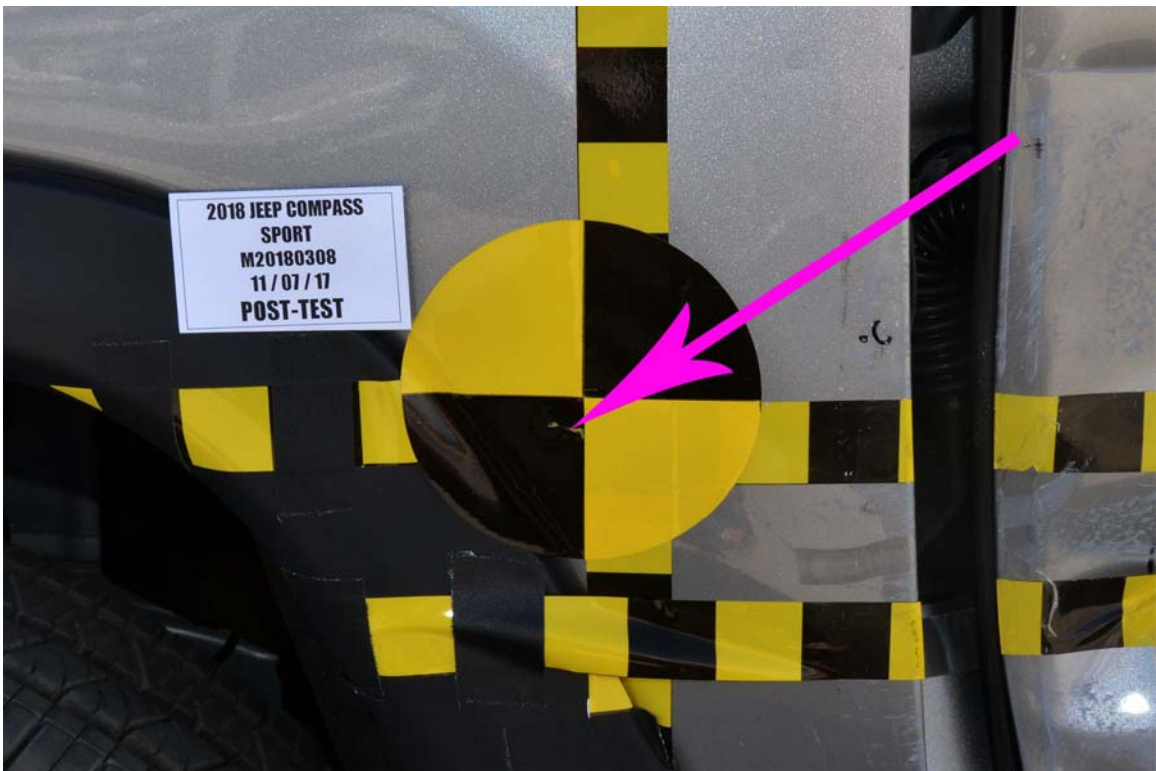


FIGURE 20. Post-Test Close-Up View of Impact Point Target



FIGURE 21. Pre-Test Left Front Door Latch Close-Up



FIGURE 22. Post-Test Left Front Door Latch Close-Up



FIGURE 23. Pre-Test Left Rear Door Latch Close-Up



FIGURE 24. Post-Test Left Rear Door Latch Close-Up



FIGURE 25. Pre-Test Front Close-Up View of Driver Dummy



FIGURE 26. Post-Test Front Close-Up View of Driver Dummy



FIGURE 27. Pre-Test Left Side View of Driver Dummy
Showing Belt and Chalking



FIGURE 28. Pre-Test Left Side View of Driver Dummy Shoulder and Door Top View



FIGURE 29. Post-Test Left Side View of Driver Dummy Shoulder and Door Top View



FIGURE 30. Pre-Test Frontal View of Driver Seat Back Prior to Dummy Positioning



FIGURE 31. Pre-Test Frontal View of Driver Dummy Head and Shoulders in Relation to Head Restraint



FIGURE 32. Pre-Test Overhead View of Driver Seat Pan Prior to Dummy Positioning



FIGURE 33. Pre-Test Overhead View of Driver Dummy Thighs on Seat Pan



FIGURE 34. Pre-Test Placement of Driver Dummy's Feet



FIGURE 35. Pre-Test View of Belt Anchorage for Driver Dummy



FIGURE 36. Pre-Test Left Side View of Steering Wheel



FIGURE 37. View of Disengaged Parking Brake



FIGURE 38. Pre-Test View of Parking Brake



FIGURE 39. Pre-Test Close-Up Left Side View of Driver Seat Track



FIGURE 40. Pre-Test Close-Up Left Side View of Driver Seat Back



FIGURE 41. Pre-Test Close-Up View of Driver Seat Back or Head Restraint



FIGURE 42. Pre-Test Driver Dummy and Door Clearance View



FIGURE 43. Post-Test Driver Dummy and Door Clearance View



FIGURE 44. Pre-Test Right Side View of Driver Dummy and Front Seat Occupant Compartment



FIGURE 45. Post-Test Right Side View of Driver Dummy and Front Seat Occupant Compartment



FIGURE 46. Pre-Test Driver Inner Door Panel View



FIGURE 47. Post-Test Driver Inner Door Panel View
Showing Driver Dummy Contact Locations



FIGURE 48. Post-Test Driver Dummy Close-Up Head Contact
with Vehicle Interior View

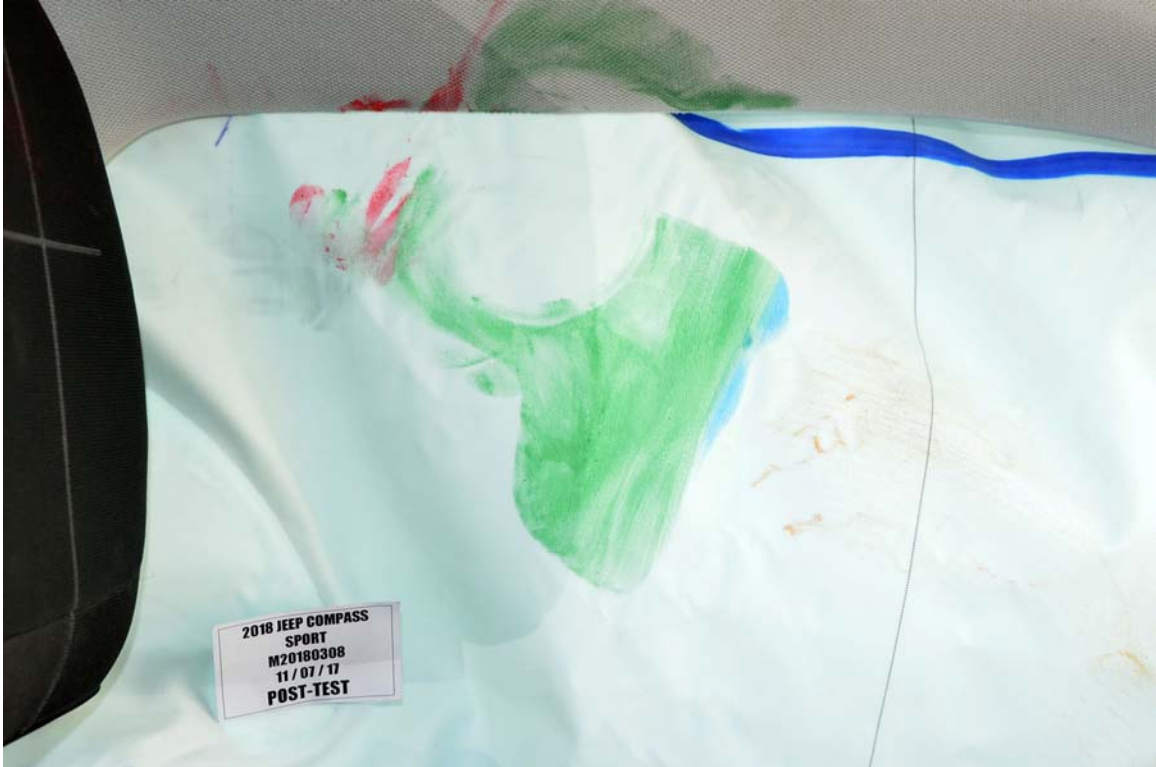


FIGURE 49. Post-Test Driver Dummy Close-Up Head Contact with Side Airbag View



FIGURE 50. Post-Test Driver Dummy Close-Up Torso Contact with Vehicle Interior View



FIGURE 51. Post-Test Driver Dummy Close-Up Torso Contact with Side Airbag View



FIGURE 52. Post-Test Driver Dummy Close-Up Pelvis Contact with Vehicle Interior View



FIGURE 53. Post-Test Driver Dummy Close-Up Pelvis Contact with Side Airbag View



FIGURE 54. Post-Test Driver Dummy Close-Up Knee Contact View



FIGURE 55. Pre-Test Left Side View of Rear Passenger Dummy
Showing Belt and Chalking



FIGURE 56. Pre-Test Left Side View of Rear Passenger Dummy
Shoulder and Door Top View



FIGURE 57. Post-Test Left Side View of Rear Passenger Dummy Shoulder and Door Top View

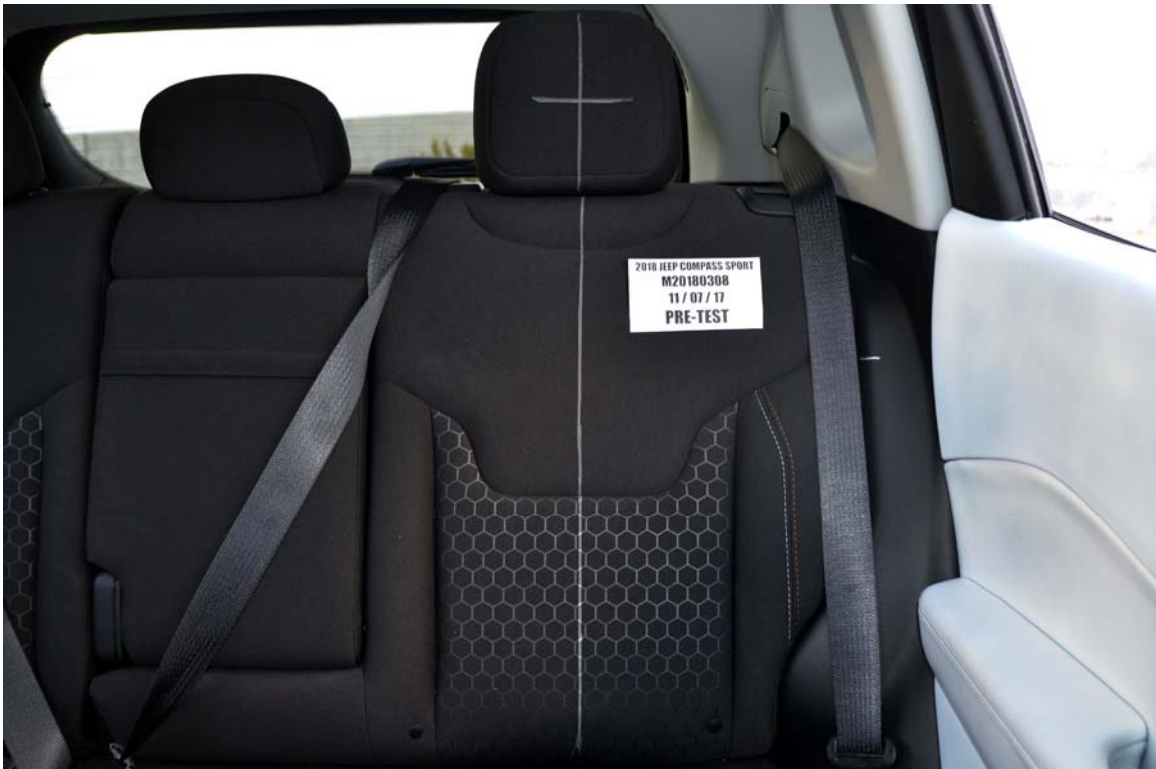


FIGURE 58. Pre-Test Frontal View of Rear Passenger Seat Back Prior to Dummy Positioning



FIGURE 59. Pre-Test Frontal View of Rear Passenger Dummy Head and Shoulders in Relation to Head Restraint



FIGURE 60. Pre-Test Overhead View of Rear Passenger Seat Pan Prior to Dummy Positioning



FIGURE 61. Pre-Test Overhead View of Rear Passenger Dummy Thighs on Seat Pan



FIGURE 62. Pre-Test View of Rear Passenger Dummy's Neck
Showing Position of Adjustable Neck Bracket



FIGURE 63. Pre-Test View of Rear Passenger Dummy's Head
Showing Dummy's Head is Level



FIGURE 64. Pre-Test Placement of Rear Passenger Dummy's Feet



FIGURE 65. Pre-Test View of Belt Anchorage for Rear Passenger Dummy



FIGURE 66. Pre-Test Close-Up Left Side View of Rear Passenger Seat Track



FIGURE 67. Pre-Test Close-Up Left Side View of Rear Passenger Seat Back



FIGURE 68. Pre-Test Close-Up View of Rear Passenger Seat Back or Head Restraint



FIGURE 69. Pre-Test Rear Passenger Dummy and Door Clearance View



FIGURE 70. Post-Test Rear Passenger Dummy and Door Clearance View



FIGURE 71. Pre-Test Right Side View of Rear Passenger Dummy and Rear Seat Occupant Compartment



FIGURE 72. Post-Test Right Side View of Rear Passenger Dummy and Rear Seat Occupant Compartment



FIGURE 73. Pre-Test Rear Passenger Inner Door Panel View



FIGURE 74. Post-Test Rear Passenger Inner Door Panel View
Showing Rear Passenger Dummy Contact Locations



FIGURE 75. Post-Test Rear Passenger Dummy Close-Up
Head Contact with Vehicle Interior View



FIGURE 76. Post-Test Rear Passenger Dummy Close-Up
Head Contact with Side Airbag View



FIGURE 77. Post-Test Rear Passenger Dummy Close-Up
Torso Contact with Vehicle Interior View

Photograph Not Applicable

**Vehicle Not Equipped with
Rear Passenger Side Airbag**

FIGURE 78. Post-Test Rear Passenger Dummy Close-Up
Torso Contact with Side Airbag View



FIGURE 79. Post-Test Rear Passenger Dummy Close-Up
Pelvis Contact with Vehicle Interior View

Photograph Not Applicable

**Vehicle Not Equipped with
Rear Passenger Side Airbags**

FIGURE 80. Post-Test Rear Passenger Dummy Close-Up
Pelvis Contact with Side Airbag View



FIGURE 81. Post-Test Rear Passenger Dummy Close-Up Knee Contact View



FIGURE 82. Pre-Test View of Fuel Filler Cap or Fuel Filler Neck



FIGURE 83. Post-Test View of Fuel Filler Cap or Fuel Filler Neck



FIGURE 84. Pre-Test Front View of MDB Impactor Face



FIGURE 85. Post-Test Front View of MDB Impactor Face



FIGURE 86. Pre-Test Top View of MDB Impactor Face



FIGURE 87. Post-Test Top View of MDB Impactor Face



FIGURE 88. Pre-Test Left Side View of MDB Impactor Face



FIGURE 89. Post-Test Left Side View of MDB Impactor Face



FIGURE 90. Pre-Test Right Side View of MDB Impactor Face



FIGURE 91. Post-Test Right Side View of MDB Impactor Face



FIGURE 92. Close-Up View of Vehicle's Certification Label



FIGURE 93. Close-Up View of Vehicle's Tire Information Placard or Label



FIGURE 94. Pre-Test Ballast View



FIGURE 95. Post-Test Primary and Redundant Speed Trap Read-Out

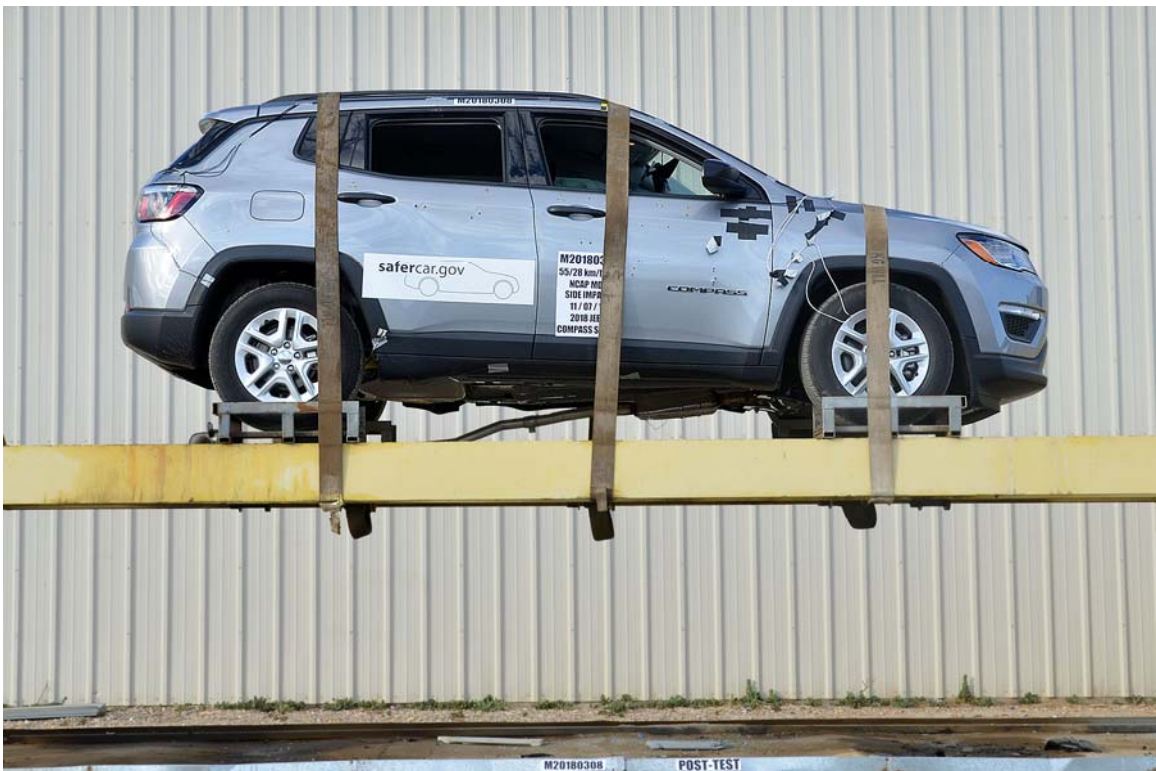


FIGURE 96. FMVSS No. 301 Static Rollover 0 Degrees



FIGURE 97. FMVSS No. 301 Static Rollover 90 Degrees



FIGURE 98. FMVSS No. 301 Static Rollover 180 Degrees

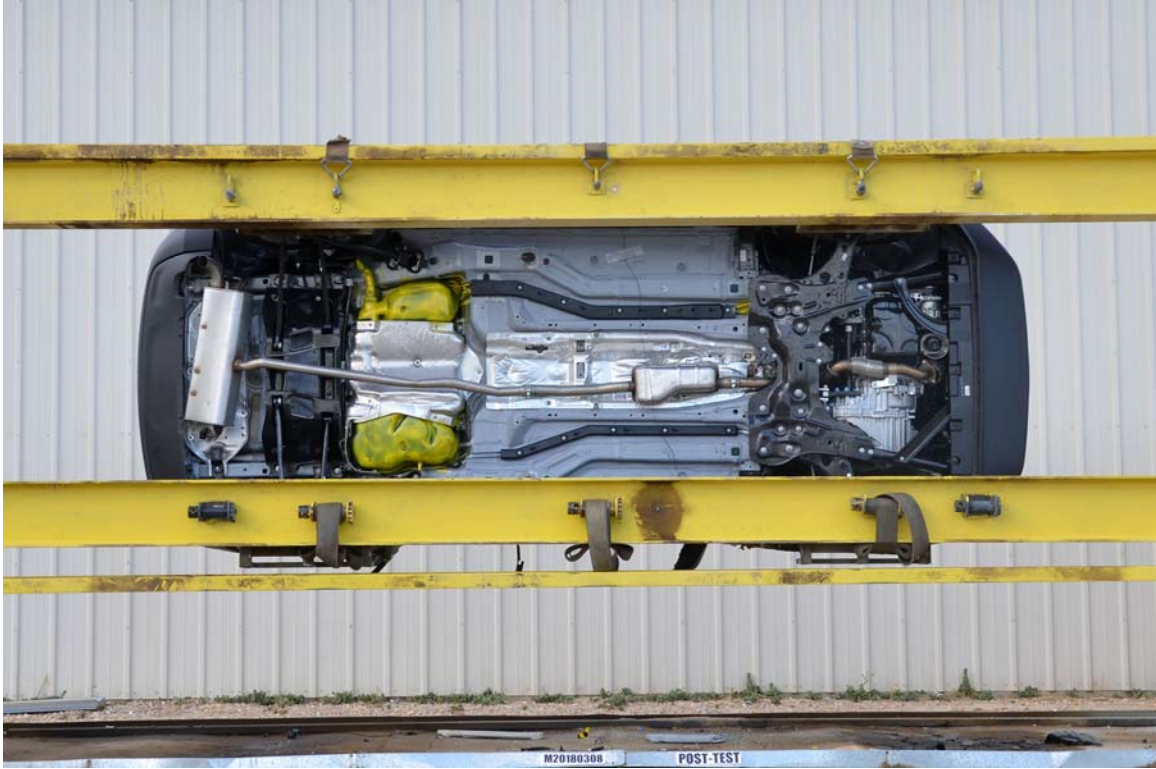


FIGURE 99. FMVSS No. 301 Static Rollover 270 Degrees

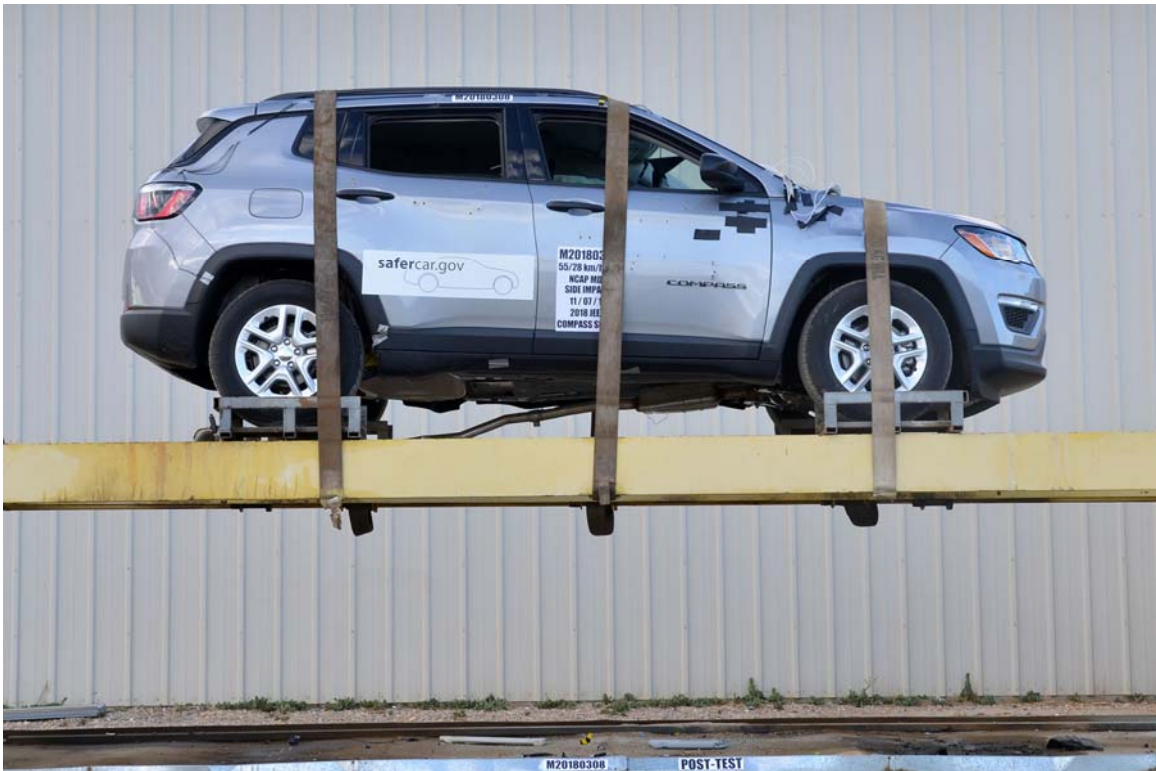


FIGURE 100. FMVSS No. 301 Static Rollover 360 Degrees



FIGURE 101. Impact Event

Jeep 2018 MODEL YEAR
COMPASS SPORT FWD

THIS VEHICLE IS MANUFACTURED TO MEET SPECIFIC UNITED STATES REQUIREMENTS. THIS VEHICLE IS NOT MANUFACTURED FOR SALE OR REGISTRATION OUTSIDE OF THE UNITED STATES.

MANUFACTURER'S SUGGESTED RETAIL PRICE OF THIS MODEL, INCLUDING DEALER PREPARATION

Base Price: \$20,995

JEEP COMPASS SPORT 4X2
Exterior Color: Silver Metallic Clear Coat Exterior Paint
Interior Color: Black Interior Color
Interior: Cloth Bucket Seats
Engine: 2.4-Liter I4 MultiAir® Engine
Transmission: 6-Speed Manual Transmission

STANDARD EQUIPMENT (UNLESS REPLACED BY OPTIONAL EQUIPMENT)

FUNCTIONAL/SAFETY FEATURES
 Rear View Day / Night Mirror
 Remote Keyless Entry
 Pushbutton Start
 Speed Control
 Speed Sensitive Power Locks
 ParkView® Rear Back Up Camera
 Rear Window Defroster
 Advanced Multi-stage Front Airbags
 Supplemental Side-Curtain Front and Rear Airbags
 Supplemental Front Seat-Mounted Side Airbags
 Rear Window Wiper / Washer
 Anti-Lock 4-Wheel Disc Brakes
 Electronic Stability Control
 Electric Park Brake
 Electronic Roll Mitigation
 13.5 Gallon Fuel Tank
 Tire Service Kit
 Panic Alarm
 Captive Fuel Filter
 Variable Intermittent Windshield Wipers

INTERIOR FEATURES
 Air Conditioning
 Uconnect® 3 with 5-inch Display
 Bluetooth® Streaming Audio
 Power Front Windows w/ 1-Touch Up and Down Feature
 Cluster 3.5-inch Black / White Driver Info Display
 Auxiliary 12-Volt Rear Power Outlet
 Remote USB Port Second Row
 Illuminated Entry
 Steering Wheel Mounted Audio Controls
 Tilt / Telescopic Steering Column
 Manual 6-Way Driver / Passenger Seats
 Rear 60 / 40 Folding Seat
 Height-Adjustable Front Shoulder Belts
 Sliding Sun Visors with Mirrors

EXTERIOR FEATURES
 6 Speakers
 Front and Rear Floor Mats
 Outside Temp Display
 Media Hub (USB, Aux)
 16-inch x 6.5-inch Styled Black Steel Wheels
 Power Adjustable Mirrors
 Exterior Mirrors with Heating Element
 Daytime Running Lane System
 Halogen Quad Headlamps
 Headlamps with Turn-Off Time Delay
 Black Day Light Opening Moldings
 Incandescent Tail Lamps

OPTIONAL EQUIPMENT (May Replace Standard Equipment)
Customer Preferred Package Z1A
 Sport Appearance Group
 16-inch x 6.5-inch Silver Painted Aluminum Wheels
 Deep Tint Sunscreen Glass
 Black Side Roof Rails
 Cold Weather Group
 Heated Front Seats
 Heated Steering Wheel
 All-Season Floor Mats
 Reversible Cargo / Vinyl Cargo Mat
 Windshield Wiper De-Icer
 Leather-Wrapped Steering Wheel

DESTINATION CHARGE \$1,095

TOTAL PRICE: * \$23,530

WARRANTY COVERAGE
 5-year or 60,000-mile Powertrain Limited Warranty.
 3-year or 36,000-mile Basic Limited Warranty.
 *Ask Dealer for a copy of the limited warranties or see your owner's manual for details.

5 YEAR / 60,000 MILE POWERTRAIN WARRANTY

For more information visit: www.jeep.com
or call 1-877-IAM-JEEP

FCA US LLC

EPA DOT Fuel Economy and Environment Gasoline Vehicle

Fuel Economy
26 MPG combined city/hwy
 23 city
 32 highway
 3.8 gallons per 100 miles

Small SUV 2WD range from 18 to 34 MPG. The best vehicle rates 136 MPG/e.

You spend \$250 more in fuel costs over 5 years compared to the average new vehicle.

Annual fuel cost \$1,400

Fuel Economy & Greenhouse Gas Rating (average mpg)
 1 5 10 Best
 This vehicle emits 339 grams CO2 per mile. The best emits 0 grams per mile (tailpipe only). Producing and distributing fuel also creates emissions from most oil refineries.

Smog Rating (average mpg)
 1 3 10 Best

Actual results will vary for many reasons, including driving conditions and how you drive and maintain your vehicle. The average new vehicle gets 27 MPG and cost \$1,750 to fuel over 5 years. Cost estimates are based on 15,000 miles per year at \$2.42 per gallon. MPG is miles per gallon (city/combined/hwy equivalent). Vehicle emissions are a significant cause of climate change and smog.

fuelconomy.gov
Calculate personalized estimates and compare vehicles.

GOVERNMENT 5-STAR SAFETY RATINGS
 This vehicle has not been rated by the government for frontal crash, side crash or rollover risk.

Source: National Highway Traffic Safety Administration (NHTSA) www.safercar.gov or 1-888-327-4236

PARTS CONTENT INFORMATION FOR VEHICLES IN THIS COUNTRY:
 U.S. / CANADIAN PARTS CONTENT: 17%
MAJOR SOURCES OF FOREIGN PARTS CONTENT:
 MEXICO: 69%
 NOTE: PARTS CONTENT DOES NOT INCLUDE FINAL ASSEMBLY, DISTRIBUTION, OR OTHER NON-PARTS COSTS.
FOR THIS VEHICLE:
 FINAL ASSEMBLY POINT:
 TOLUCA, MEXICO
 COUNTRY OF ORIGIN:
 ENGINE: UNITED STATES
 TRANSMISSION: ITALY

FIGURE 102. Monroney Label

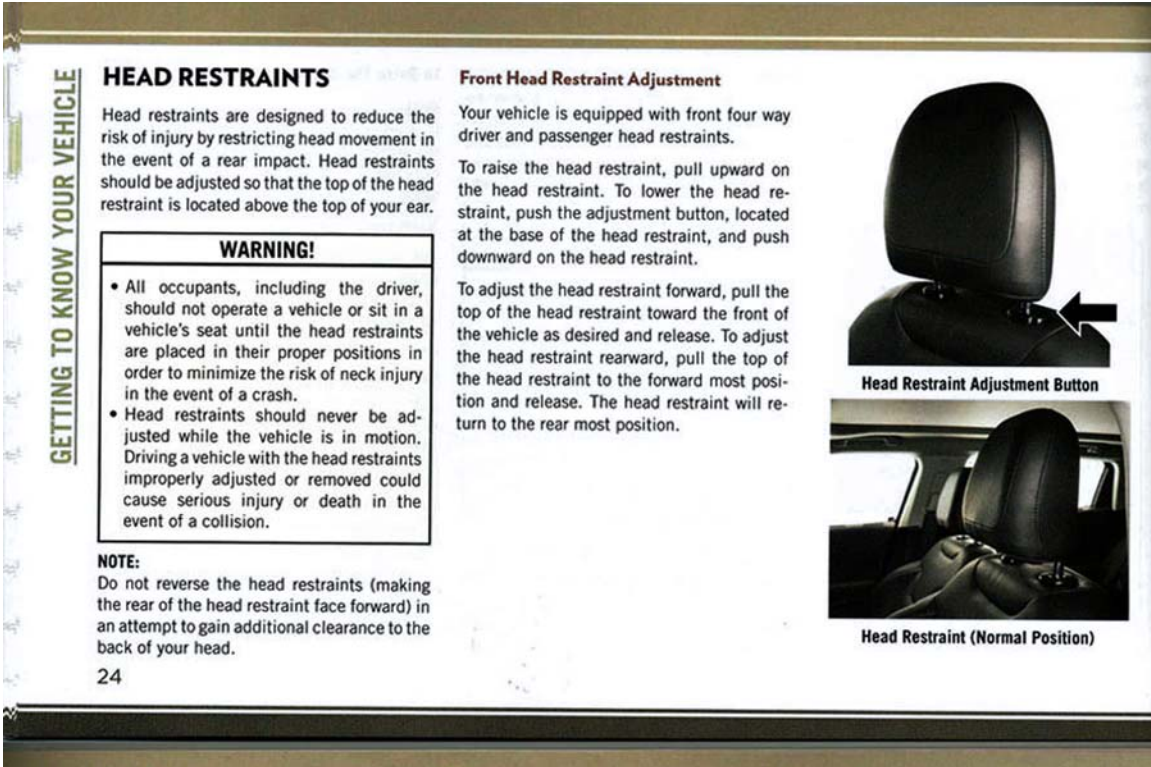


FIGURE 103. Driver Head Restraint Use and Adjustment Information
from Vehicle Owner's Manual

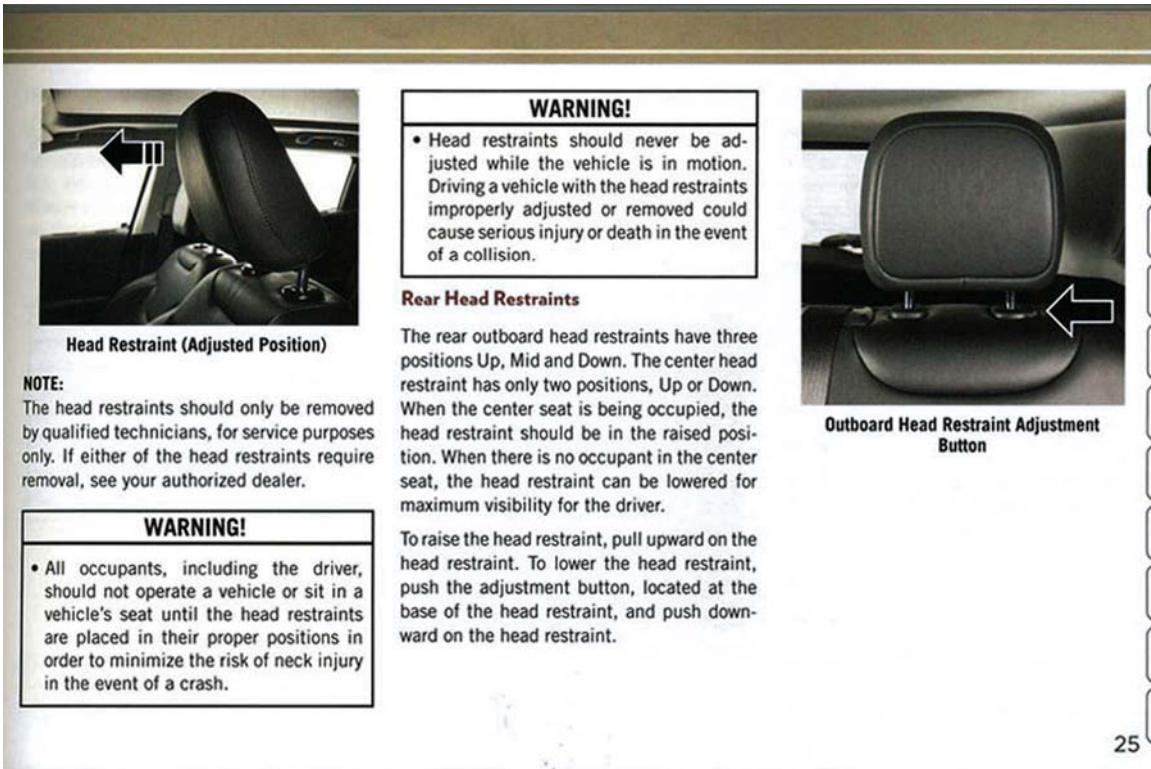


FIGURE 104. Left Rear Passenger Head Restraint Use and Adjustment Information
from Vehicle Owner's Manual

APPENDIX B
DUMMY RESPONSE DATA

TABLE OF DATA PLOTS

Plot		Page
1	Driver Head Acceleration (X) Primary vs. Time	B-1
2	Driver Head Acceleration (Y) Primary vs. Time	B-1
3	Driver Head Acceleration (Z) Primary vs. Time	B-1
4	Driver Head Resultant Acceleration Primary vs. Time	B-1
5	Driver Upper Thorax Rib Deflection (Y) vs. Time	B-2
6	Driver Middle Thorax Rib Deflection (Y) vs. Time	B-2
7	Driver Lower Thorax Rib Deflection (Y) vs. Time	B-2
8	Driver Thorax Rib Deflection Maximum vs. Time	B-2
9	Driver Anterior Abdominal Force (Y) vs. Time	B-3
10	Driver Middle Abdominal Force (Y) vs. Time	B-3
11	Driver Posterior Abdominal Force (Y) vs. Time	B-3
12	Driver Total Abdominal Force (Y) vs. Time	B-3
13	Driver Pubic Symphysis Force (Y) vs. Time	B-4
14	Passenger Head Acceleration (X) vs. Time Primary	B-5
15	Passenger Head Acceleration (Y) vs. Time Primary	B-5
16	Passenger Head Acceleration (Z) vs. Time Primary	B-5
17	Passenger Head Resultant Acceleration Primary vs. Time	B-5
18	Passenger Lower Spine T12 Acceleration (X) vs. Time	B-6
19	Passenger Lower Spine T12 Acceleration (Y) vs. Time	B-6
20	Passenger Lower Spine T12 Acceleration (Z) vs. Time	B-6
21	Passenger Lower Spine T12 Resultant Acceleration vs. Time	B-6
22	Passenger Iliac Force on Impact Side (Y) vs. Time	B-7
23	Passenger Acetabulum Force on Impact Side (Y) vs. Time	B-7
24	Passenger Total Pelvic Force on Impact Side (Y) vs. Time	B-7

The following additional data for this test can be obtained from the Research and Development section of the NHTSA website (www.NHTSA.dot.gov)

Additional Driver & Passenger Dummy Instrumentation Data

Driver Lower Spine T12 Acceleration (X)
Driver Lower Spine T12 Acceleration (Y)
Driver Lower Spine T12 Acceleration (Z)
Passenger Upper Thorax Rib Deflection (Y)
Passenger Middle Thorax Rib Deflection (Y)
Passenger Lower Thorax Rib Deflection (Y)

Passenger Upper Abdomen Rib Deflection (Y)
Passenger Lower Abdomen Rib Deflection (Y)
Driver Head Acceleration Redundant (X)
Driver Head Acceleration Redundant (Y)
Driver Head Acceleration Redundant (Z)
Passenger Head Acceleration Redundant (X)
Passenger Head Acceleration Redundant (Y)
Passenger Head Acceleration Redundant (Z)

Vehicle Instrumentation Data

Vehicle Center of Gravity Acceleration (X)
Vehicle Center of Gravity Acceleration (Y)
Vehicle Center of Gravity Acceleration (Z)
Right Side Sill at Front Seat Acceleration (X)
Right Side Sill at Front Seat Acceleration (Y)
Right Side Sill at Front Seat Acceleration (Z)
Right Side Sill at Rear Seat Acceleration (X)
Right Side Sill at Rear Seat Acceleration (Y)
Right Side Sill at Rear Seat Acceleration (Z)
Left Side Sill at Front Seat Acceleration (Y)
Left Side Sill at Rear Seat Acceleration (Y)
Lower A-Post Acceleration (Y)
Middle A-Post Acceleration (Y)
Lower B-Post Acceleration (Y)
Middle B-Post Acceleration (Y)
Front Seat Track Acceleration (Y)
Rear Seat Structure Acceleration (Y)
Right Rear Occupant Compartment Acceleration (Y)
Engine Block (X)
Engine Block (Y)
Rear Floorpan Above Axle Acceleration (X)
Rear Floorpan Above Axle Acceleration (Y)
Rear Floorpan Above Axle Acceleration (Z)

MDB Instrumentation Data

MDB Center of Gravity Acceleration (X)

MDB Center of Gravity Acceleration (Y)

MDB Center of Gravity Acceleration (Z)

MDB Rear Acceleration (X)

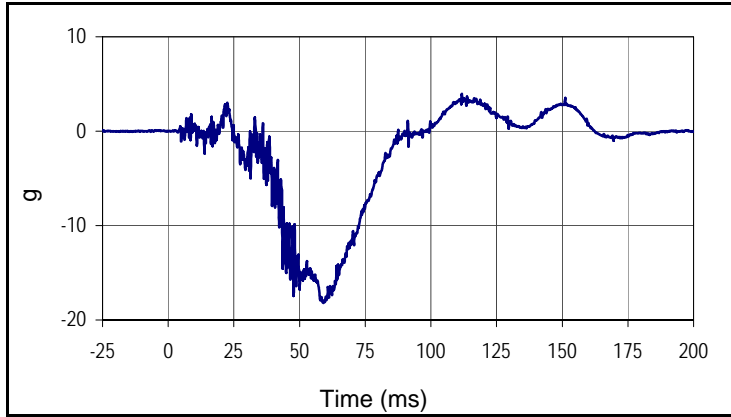
MDB Rear Acceleration (Y)

Left MDB Contact Switch

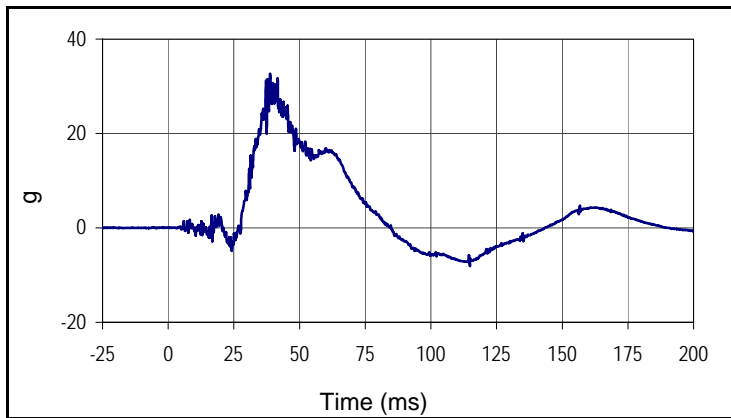
Right MDB Contact Switch

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV
 Test Program: NCAP MDB Side Impact Test

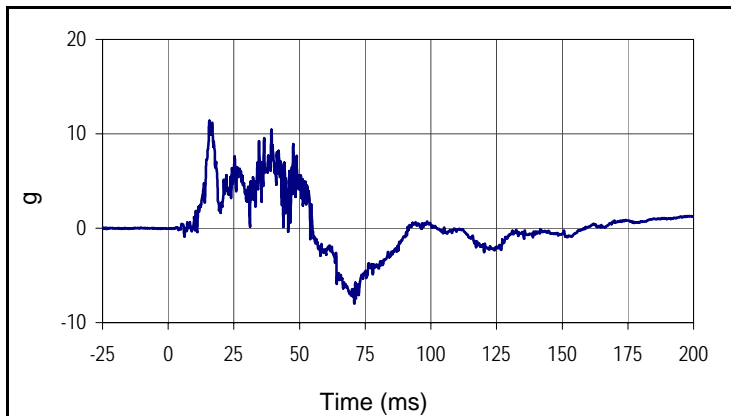
NHTSA No.: M20180308
 Test Date: 11/7/17



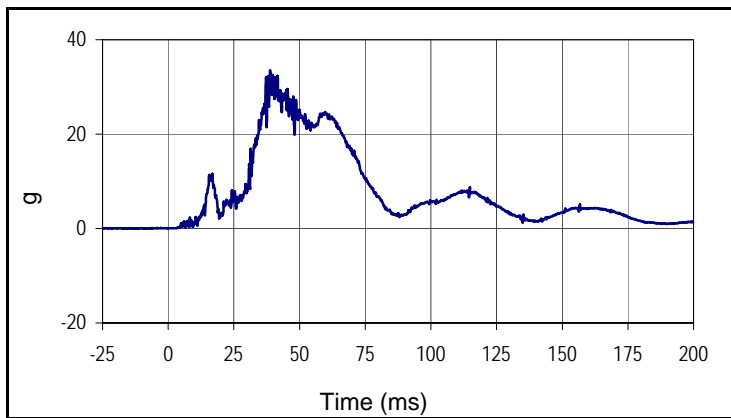
Curve Description			
Driver Head Acceleration X Primary			
Plot No.		SAE Class	Units
001		1000	g
Max	Time	Min	Time
4.0	111.8	-18.2	59.0



Curve Description			
Driver Head Acceleration Y Primary			
Plot No.		SAE Class	Units
002		1000	g
Max	Time	Min	Time
32.7	38.8	-8.1	114.8



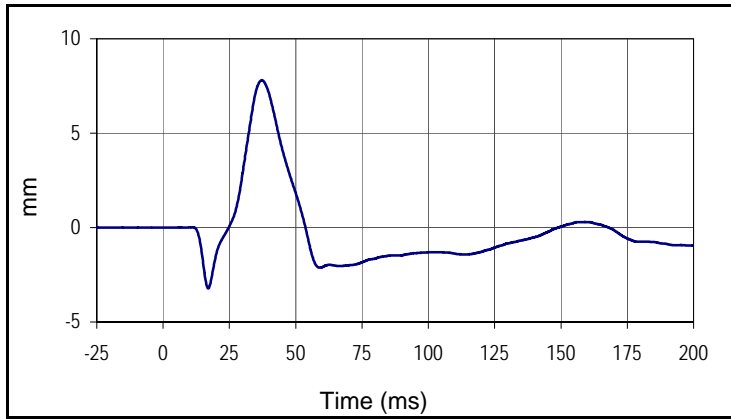
Curve Description			
Driver Head Acceleration Z Primary			
Plot No.		SAE Class	Units
003		1000	g
Max	Time	Min	Time
11.4	15.7	-8.0	70.9



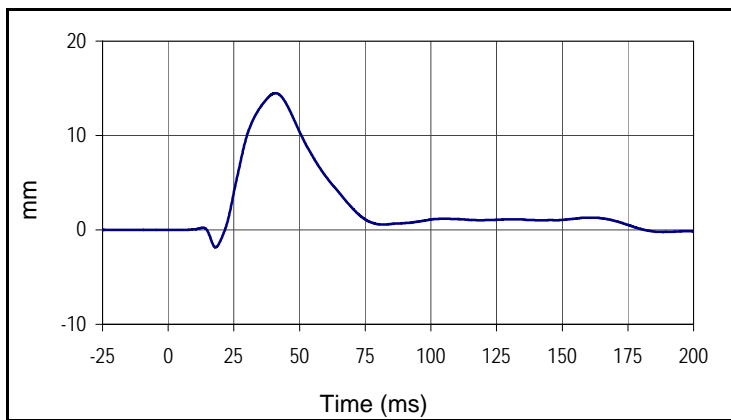
Curve Description			
Driver Head Resultant Acceleration Primary			
Plot No.		SAE Class	Units
004		1000	g
Max	Time	Min	Time
33.5	38.8	0.0	0.7

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV
 Test Program: NCAP MDB Side Impact Test

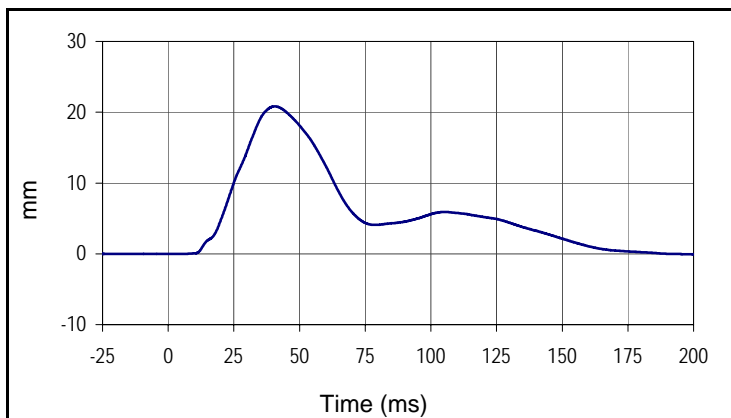
NHTSA No.: M20180308
 Test Date: 11/7/17



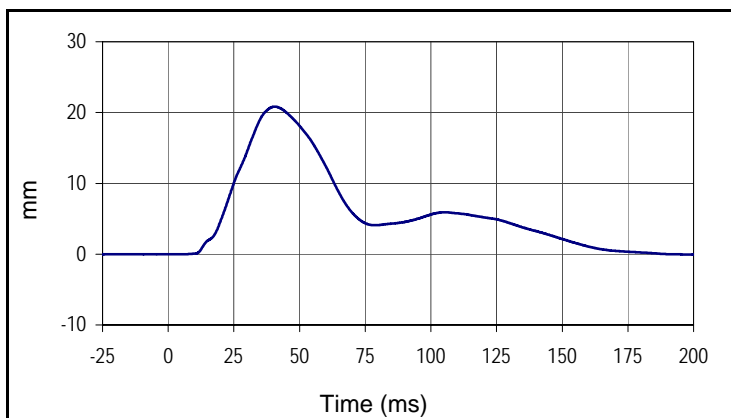
Curve Description			
Driver Upper Thorax Rib Deflection Y			
Plot No.		SAE Class	Units
005		180	mm
Max	Time	Min	Time
7.8	37.2	-3.2	17.0



Curve Description			
Driver Middle Thorax Rib Deflection Y			
Plot No.		SAE Class	Units
006		180	mm
Max	Time	Min	Time
14.5	40.9	-1.8	18.0



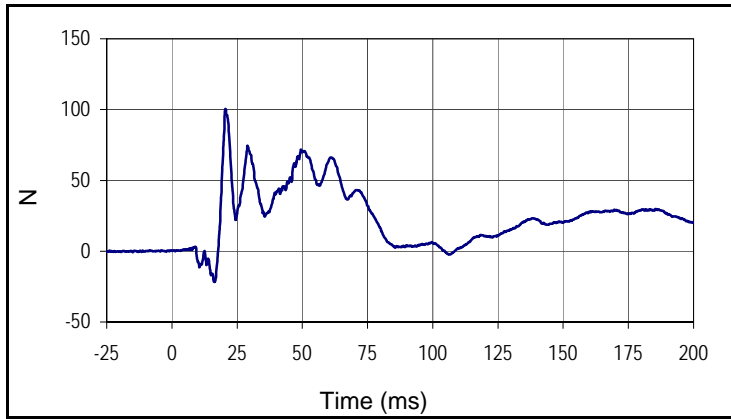
Curve Description			
Driver Lower Thorax Rib Deflection Y			
Plot No.		SAE Class	Units
007		180	mm
Max	Time	Min	Time
20.8	40.6	-0.1	199.8



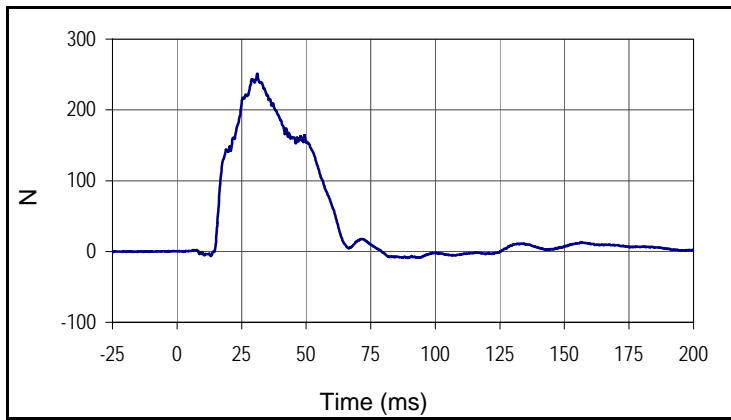
Curve Description			
Driver Thorax Rib Deflection Maximum Y			
Plot No.		SAE Class	Units
008		180	mm
Max	Time	Min	Time
20.8	40.6	-0.1	199.8

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV
 Test Program: NCAP MDB Side Impact Test

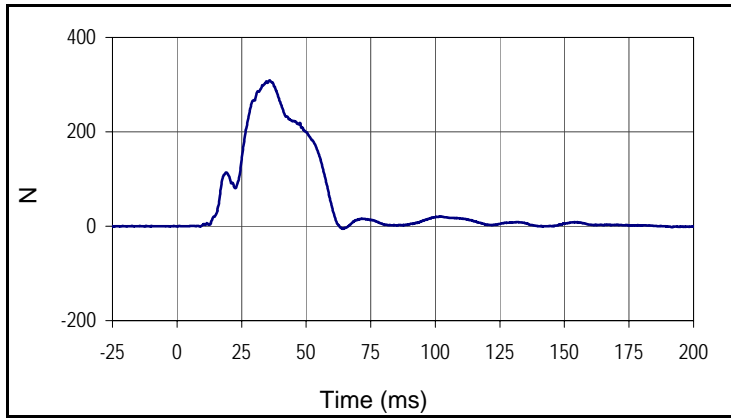
NHTSA No.: M20180308
 Test Date: 11/7/17



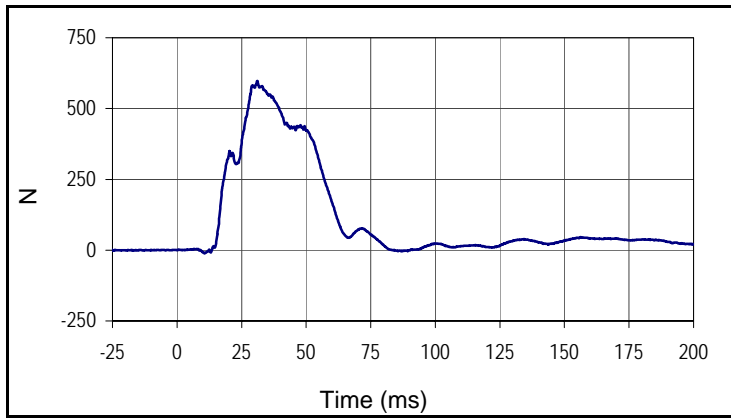
Curve Description			
Driver Anterior Abdominal Force Y			
Plot No.		SAE Class	Units
009		600	N
Max	Time	Min	Time
100.6	20.5	-21.7	16.2



Curve Description			
Driver Middle Abdominal Force Y			
Plot No.		SAE Class	Units
010		600	N
Max	Time	Min	Time
251.0	31.1	-9.0	89.4



Curve Description			
Driver Posterior Abdominal Force Y			
Plot No.		SAE Class	Units
011		600	N
Max	Time	Min	Time
309.0	35.9	-5.2	64.2



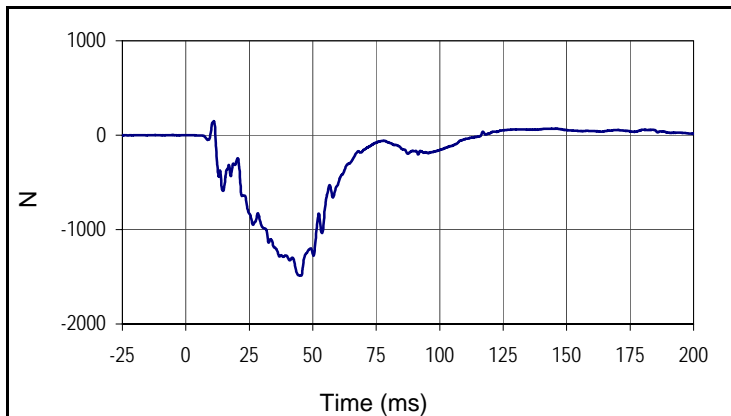
Curve Description			
Driver Total Abdominal Force			
Plot No.		SAE Class	Units
012		600	N
Max	Time	Min	Time
597.6	31.1	-12.1	10.6

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV

NHTSA No.: M20180308

Test Program: NCAP MDB Side Impact Test

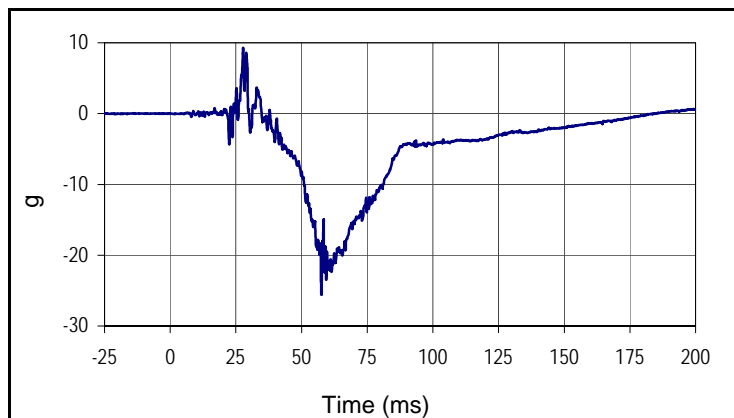
Test Date: 11/7/17



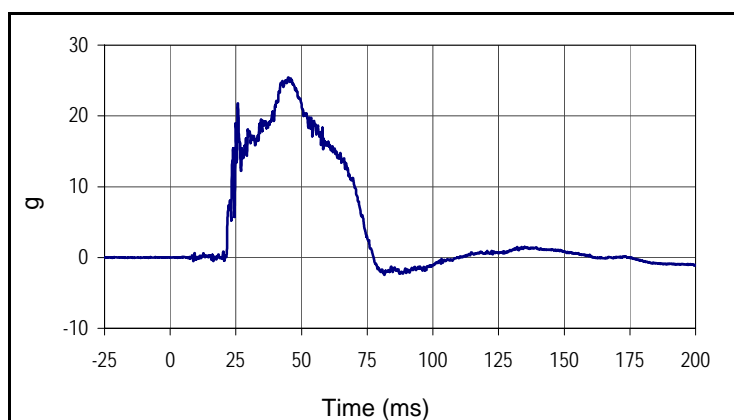
Curve Description			
Driver Pubic Symphysis Force Y			
Plot No.		SAE Class	Units
013		600	N
Max	Time	Min	Time
149.3	11.1	-1489.1	45.3

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV
 Test Program: NCAP MDB Side Impact Test

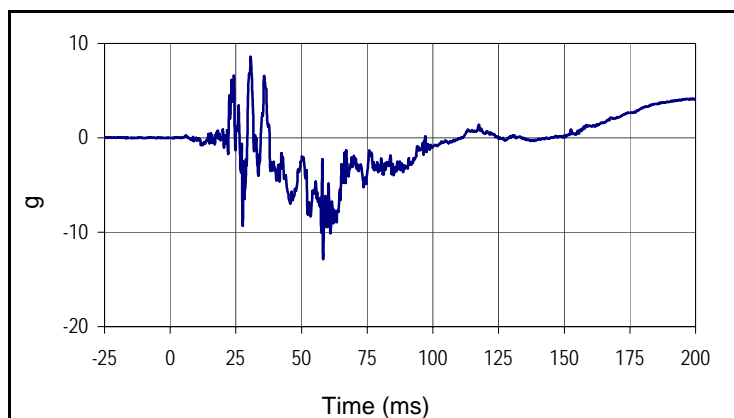
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 Test Date: 11/7/17



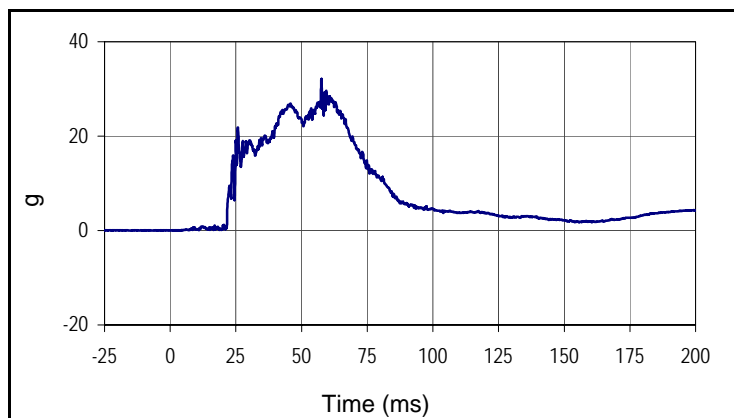
Curve Description			
Passenger Head Acceleration X Primary			
Plot No.		SAE Class	Units
014		1000	g
Max	Time	Min	Time
9.3	27.7	-25.5	57.6



Curve Description			
Passenger Head Acceleration Y Primary			
Plot No.		SAE Class	Units
015		1000	g
Max	Time	Min	Time
25.4	44.9	-2.5	81.6



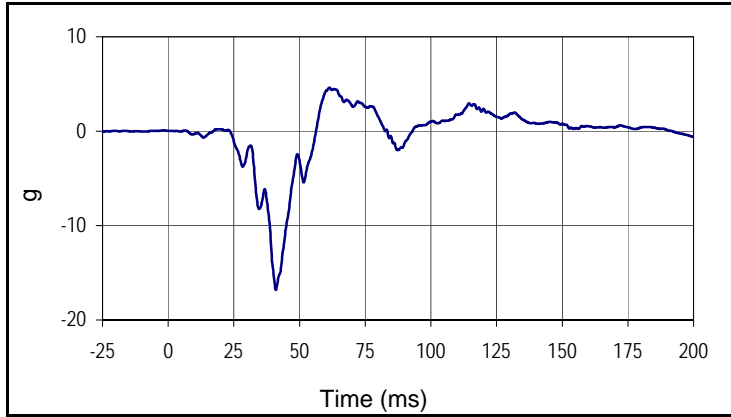
Curve Description			
Passenger Head Acceleration Z Primary			
Plot No.		SAE Class	Units
016		1000	g
Max	Time	Min	Time
8.6	30.6	-12.8	58.2



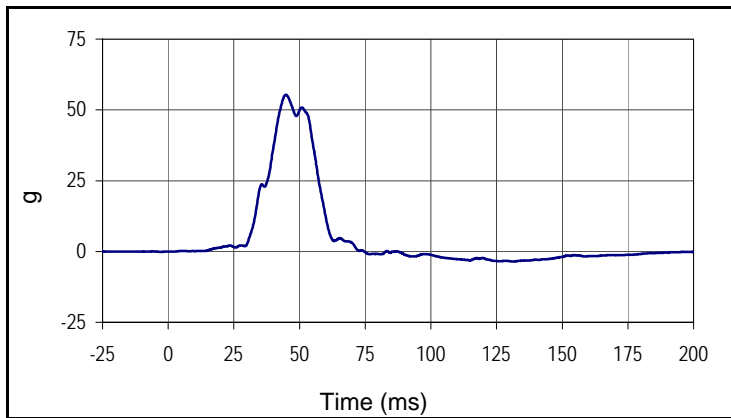
Curve Description			
Passenger Head Acceleration Resultant Primary			
Plot No.		SAE Class	Units
017		1000	g
Max	Time	Min	Time
32.1	57.6	0.0	0.3

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV
 Test Program: NCAP MDB Side Impact Test

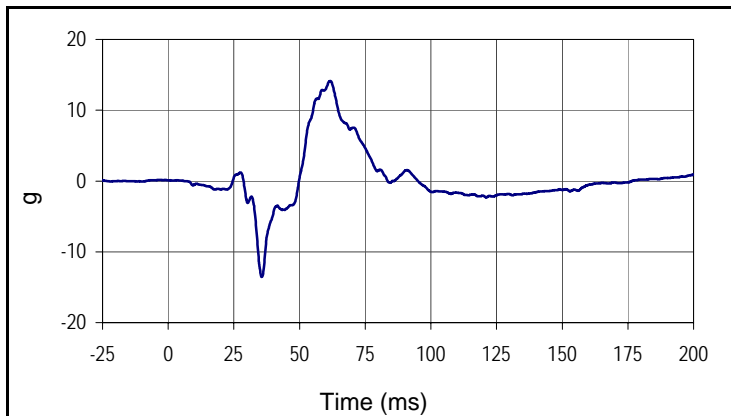
NHTSA No.: M20180308
 Test Date: 11/7/17



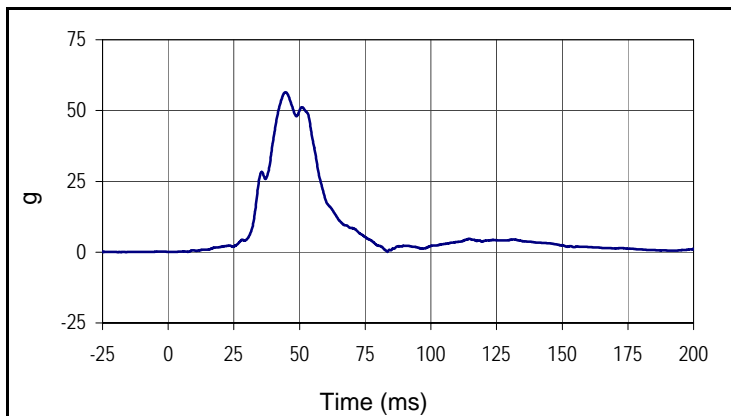
Curve Description			
Passenger Lower Spine T12 Acceleration X			
Plot No.		SAE Class	Units
018		180	g
Max	Time	Min	Time
4.6	61.4	-16.8	41.0



Curve Description			
Passenger Lower Spine T12 Acceleration Y			
Plot No.		SAE Class	Units
019		180	g
Max	Time	Min	Time
55.3	44.8	-3.5	131.6



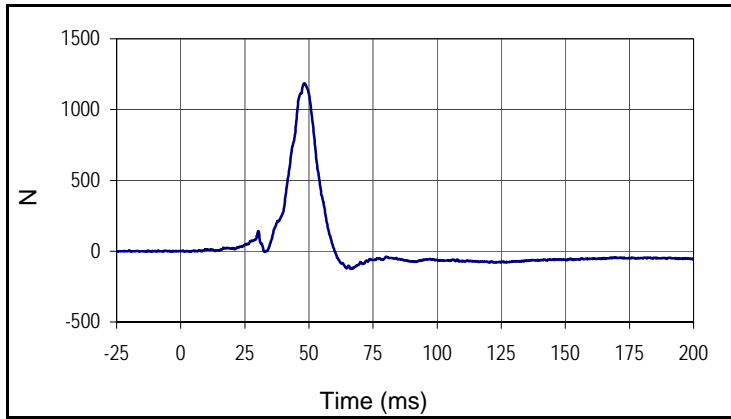
Curve Description			
Passenger Lower Spine T12 Acceleration Z			
Plot No.		SAE Class	Units
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Max	Time	Min	Time
14.1	61.8	-13.5	35.6



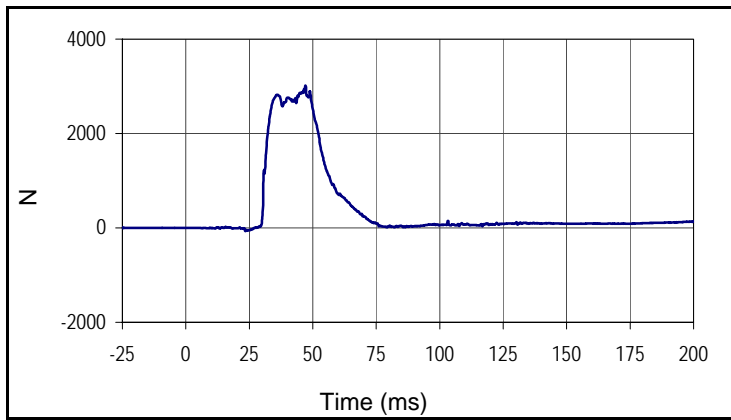
Curve Description			
Passenger Lower Spine T12 Acceleration Res.			
Plot No.		SAE Class	Units
021		180	g
Max	Time	Min	Time
56.4	44.6	0.1	2.2

Test Vehicle: 2018 Jeep Compass Sport 5-Door MPV
 Test Program: NCAP MDB Side Impact Test

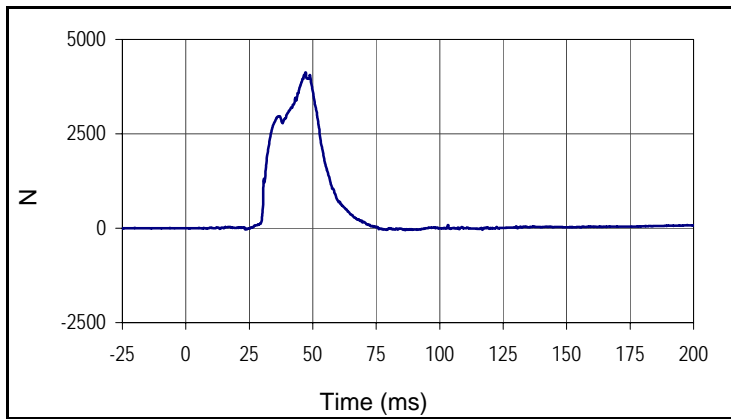
NHTSA No.: M20180308
 Test Date: 11/7/17



Curve Description			
Passenger Iliac Force on Impact Side Y			
Plot No.		SAE Class	Units
022		600	N
Max	Time	Min	Time
1186.4	48.2	-124.9	66.2



Curve Description			
Passenger Acetabulum Force on Impact Side Y			
Plot No.		SAE Class	Units
023		600	N
Max	Time	Min	Time
3013.6	47.1	-71.0	23.5



Curve Description			
Passenger Total Pelvic Force			
Plot No.		SAE Class	Units
024		600	N
Max	Time	Min	Time
4130.2	47.1	-47.3	86.4

APPENDIX C
ATD CONFIGURATION AND PERFORMANCE VERIFICATION DATA



ATD Serial No.: F037

Test Date: 2017-11-03

Tested Parameter	Units	Spec Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
1 - Sitting Height	mm	900	918	911	Pass
2 - Seat to Shoulder Joint	mm	558	572	567	Pass
3 - Seat to Lower Face of Thoracic Spine Box	mm	346	356	347	Pass
4 - Seat to Hip Joint (bolt center)	mm	97	103	103	Pass
5 - Sole to Seat, Sitting	mm	333	451	386	Pass
6 - Head Width	mm	152	158	156	Pass
7 - Shoulder/Arm Width	mm	461	479	467	Pass
8 - Thorax Width	mm	322	332	326	Pass
9 - Abdomen Width	mm	273	287	279	Pass
10 - Pelvis Lap Width	mm	359	373	369	Pass
11 - Head Depth	mm	196	206	206	Pass
12 - Thorax Depth	mm	262	272	267	Pass
13 - Abdomen Depth	mm	194	204	202	Pass
14 - Pelvis Depth	mm	235	245	241	Pass
15 - Back of Buttocks to Hip Joint (bolt Center)	mm	150	160	155	Pass
16 - Back of Buttocks to Front Knee	mm	597	615	601	Pass
				Overall Test Results	Pass

Technician:

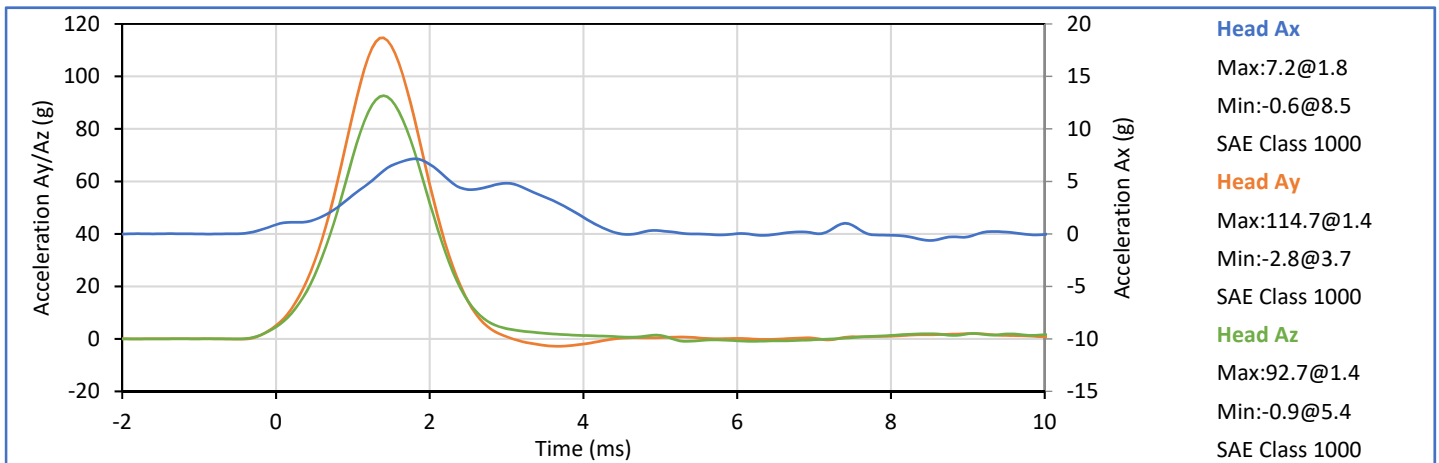
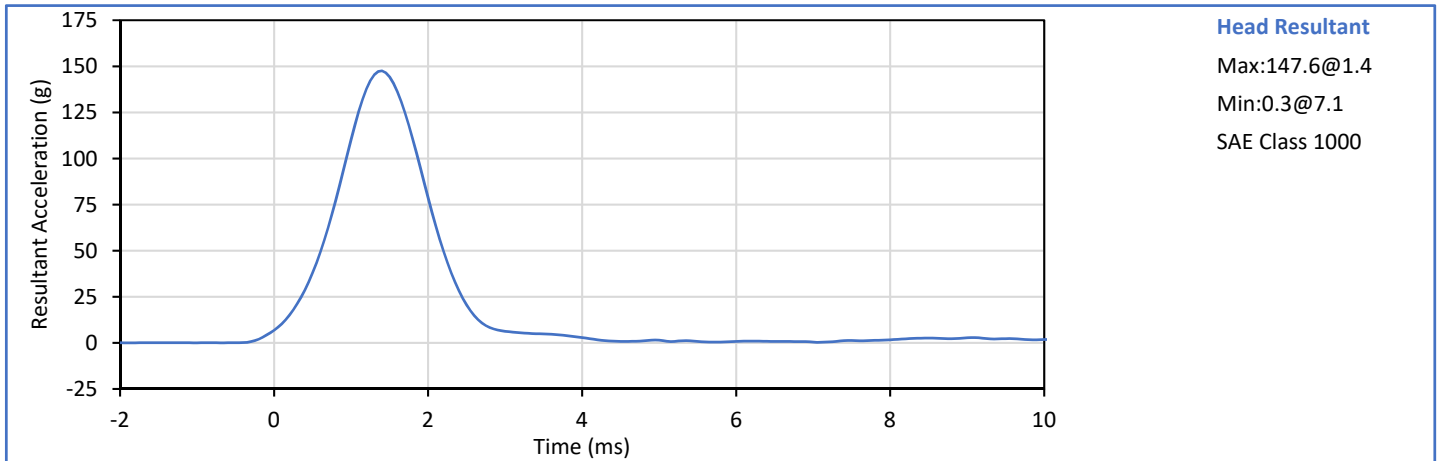
Approved By:



ATD Serial No.: F037

Test Date: 2017-11-01

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.7	Pass
Laboratory Humidity	%	10	70	35	Pass
Peak Resultant Acceleration	g	125.0	155.0	147.6	Pass
Peak Head Ax	g	-15.0	15.0	7.2	Pass
Oscillations After Main Pulse	%	0.0	15.0	2.0	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
Overall Test Results					Pass



Technician: *Smith*

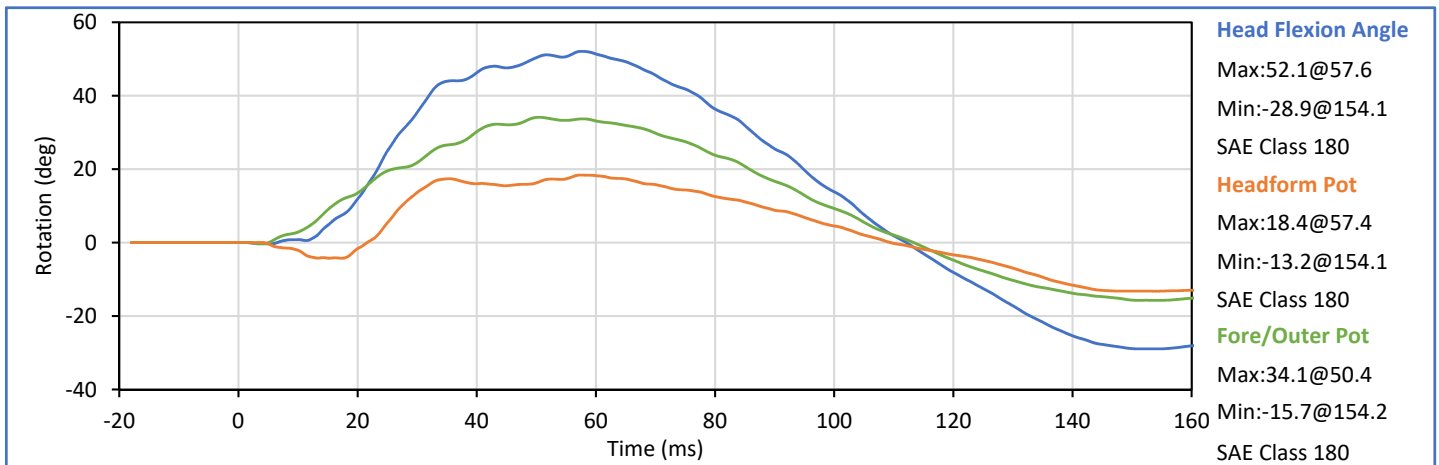
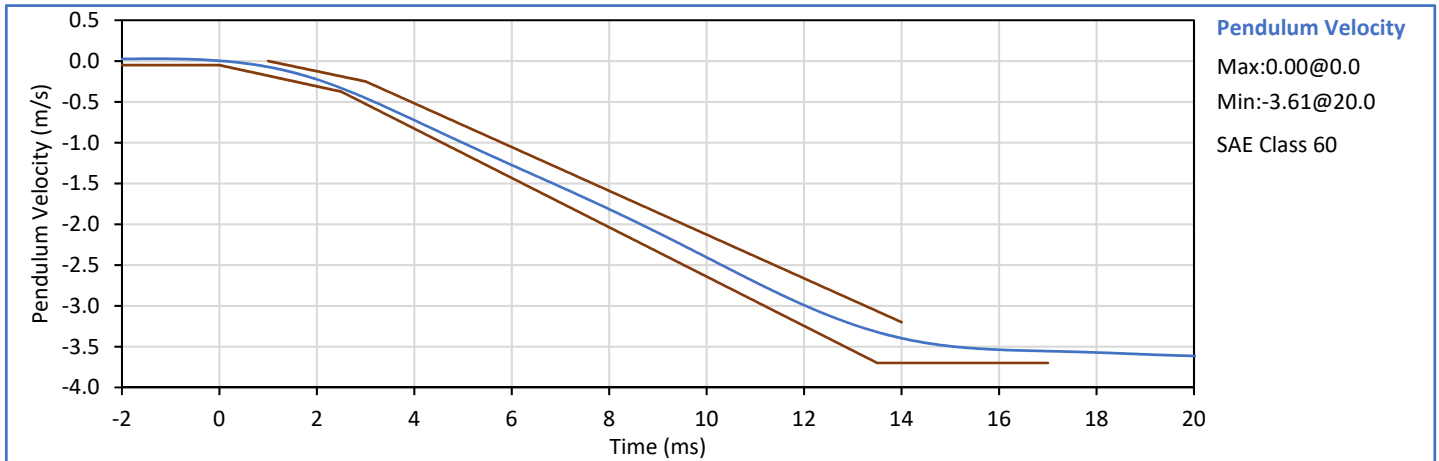
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-03

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.9	Pass
Laboratory Humidity	%	10	70	31	Pass
Pendulum Velocity	m/s	3.30	3.50	3.48	Pass
Peak Headform Flexion	deg	49.0	59.0	52.1	Pass
Time of Peak Headform Flexion	ms	54.0	66.0	57.6	Pass
Flexion Decay (Peak to zero)	ms	53.0	88.0	54.6	Pass
Overall Test Results					Pass



Technician: *Scotty*

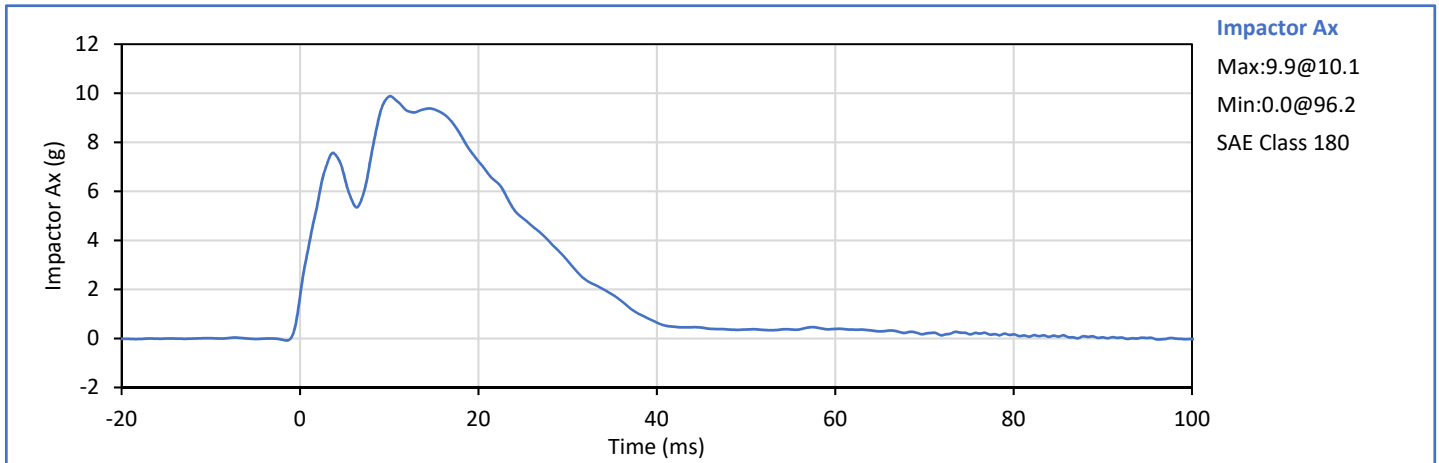
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-03

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.9	Pass
Laboratory Humidity	%	10	70	31	Pass
Impactor Velocity	m/s	4.20	4.40	4.34	Pass
Peak Impactor Ax	g	7.5	10.5	9.9	Pass
Overall Test Results					Pass



Technician: *Scott G*

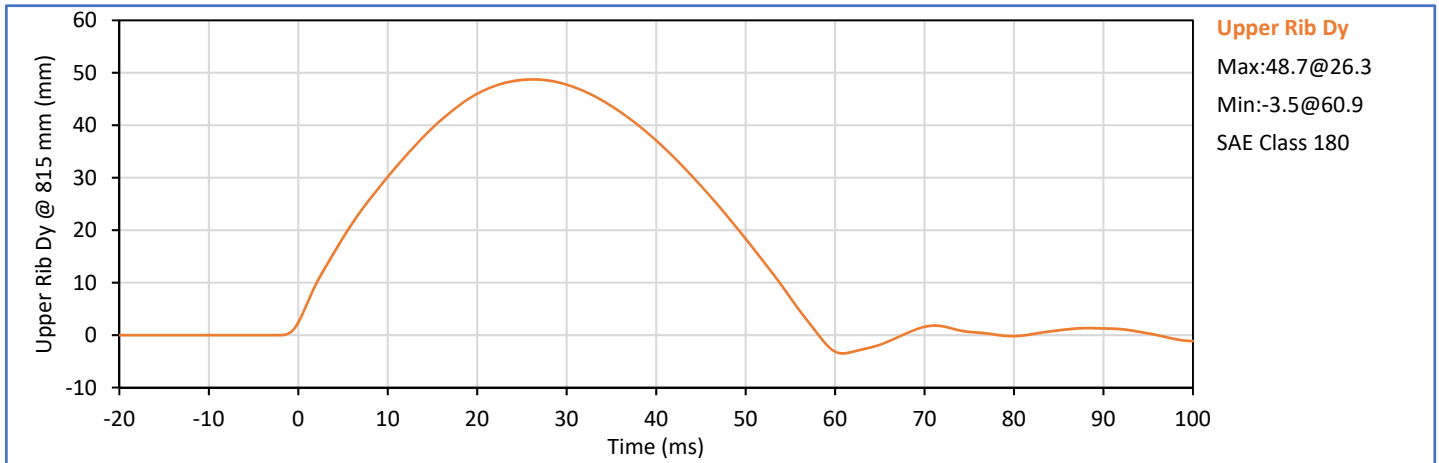
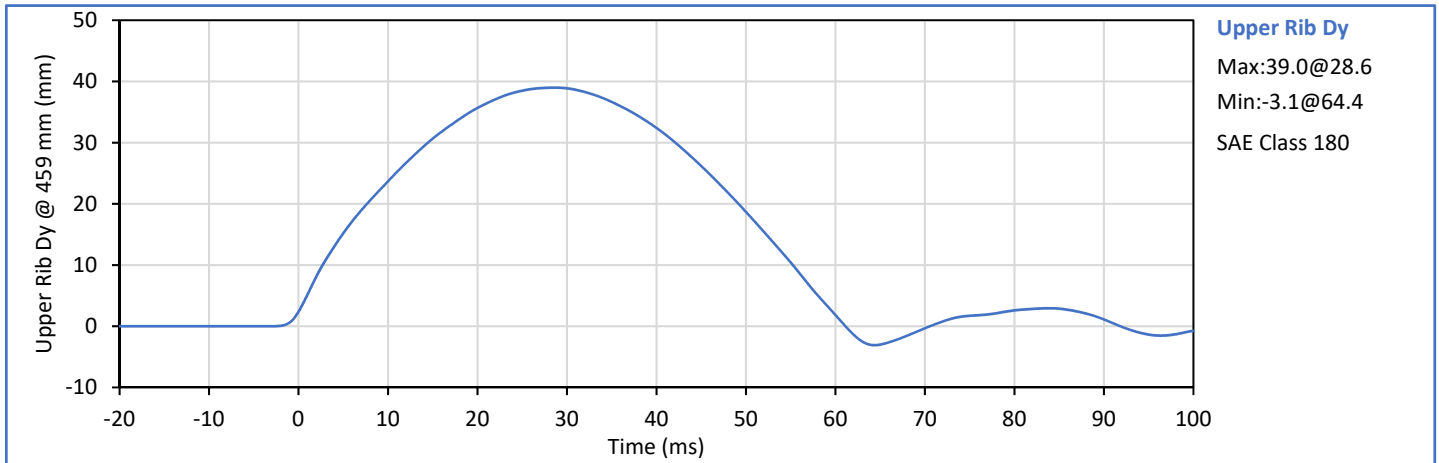
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-02

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Upper Rib Dy @ (459mm)	mm	36.0	40.0	39.0	Pass
Upper Rib Dy @ (815mm)	mm	46.0	51.0	48.7	Pass
Overall Test Results					Pass



Technician: *Scotty*

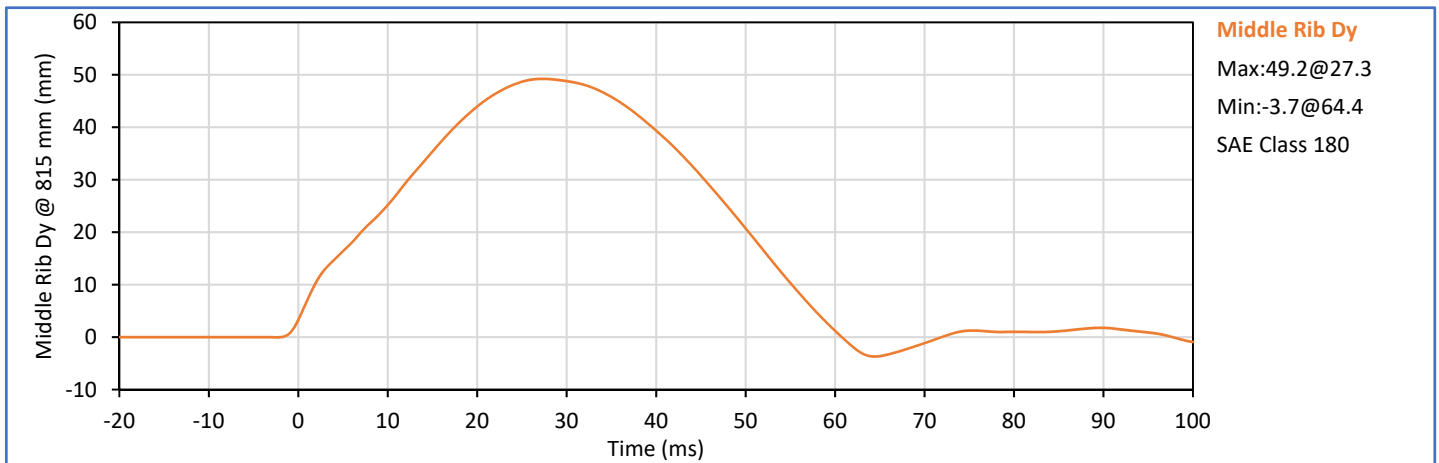
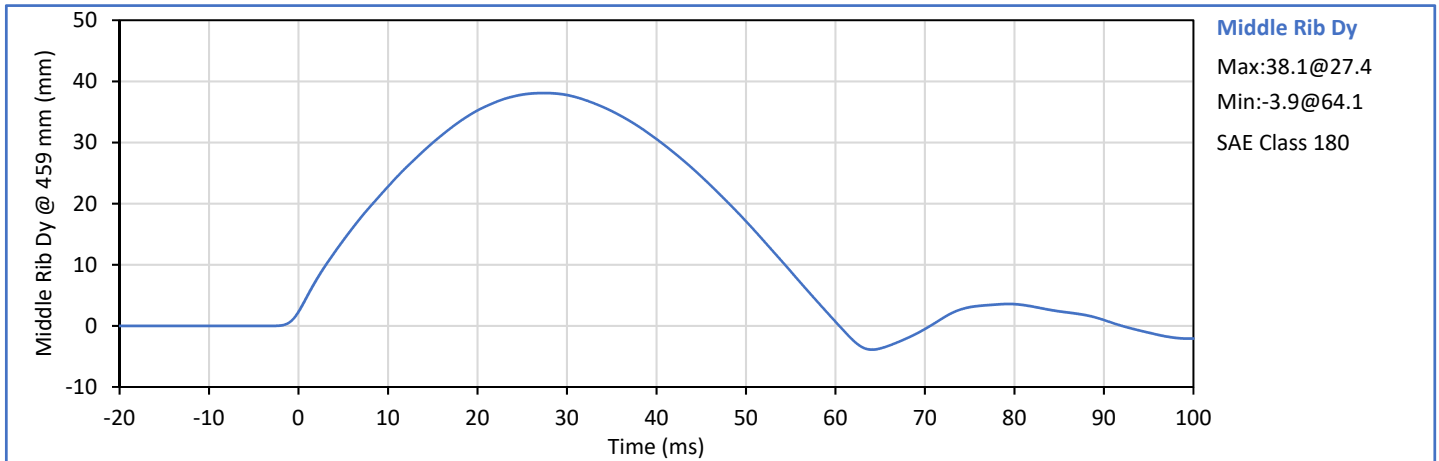
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-02

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Middle Rib Dy @ (459mm)	mm	36.0	40.0	38.1	Pass
Middle Rib Dy @ (815mm)	mm	46.0	51.0	49.2	Pass
Overall Test Results					Pass



Technician: *Scotty*

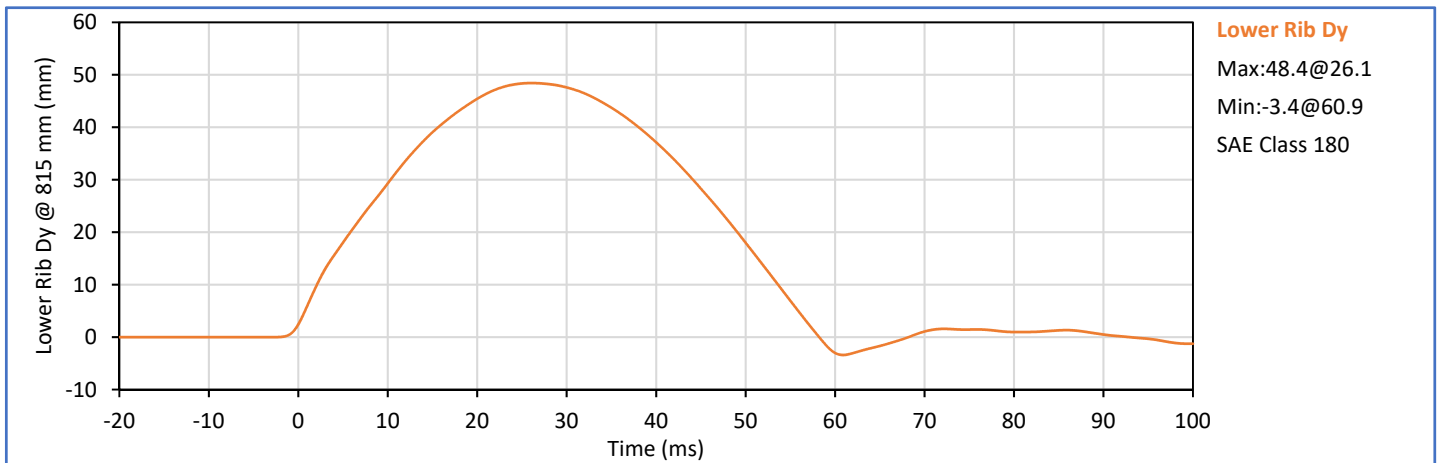
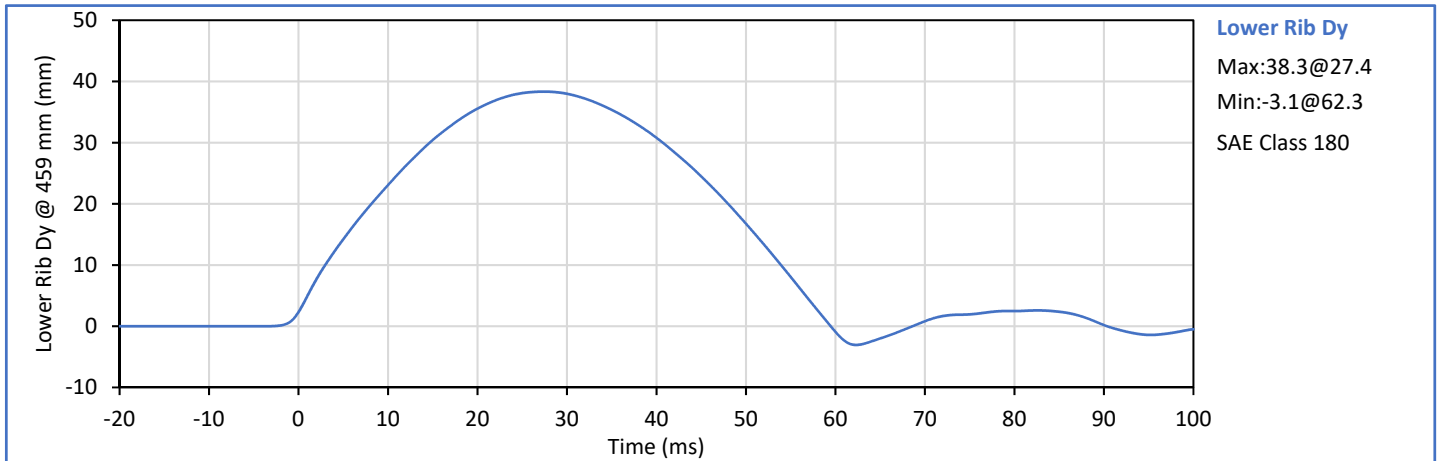
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-02

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Lower Rib Dy @ (459mm)	mm	36.0	40.0	38.3	Pass
Lower Rib Dy @ (815mm)	mm	46.0	51.0	48.4	Pass
Overall Test Results					Pass



Technician: *Scotty*

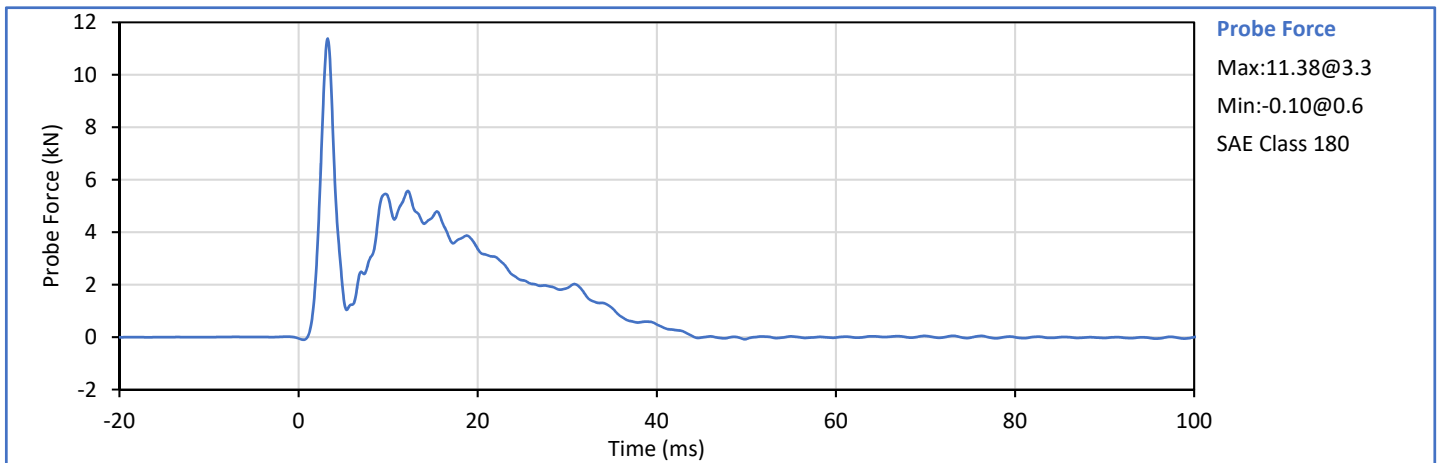
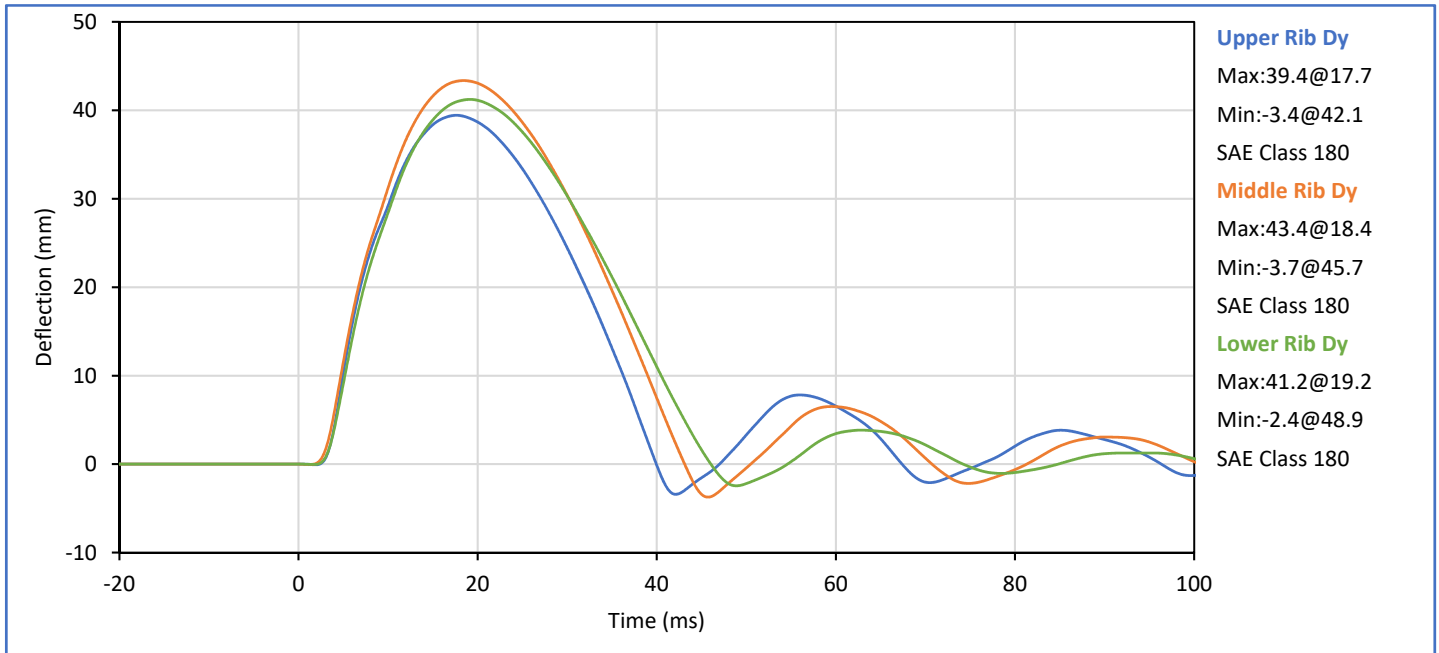
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-03

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Impactor Velocity	m/s	5.40	5.60	5.51	Pass
Peak Upper Rib Dy	mm	34.0	41.0	39.4	Pass
Peak Middle Rib Dy	mm	37.0	45.0	43.4	Pass
Peak Lower Rib Dy	mm	37.0	44.0	41.2	Pass
Peak Impactor Force After 6 ms	kN	5.10	6.20	5.58	Pass
Overall Test Results					Pass



Technician: *Scotty*

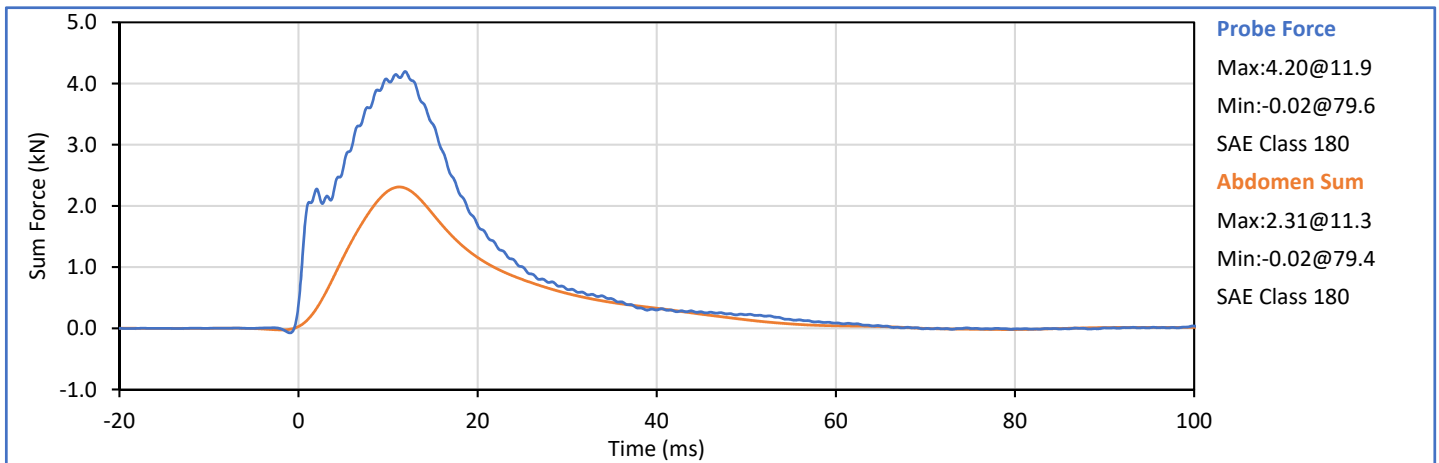
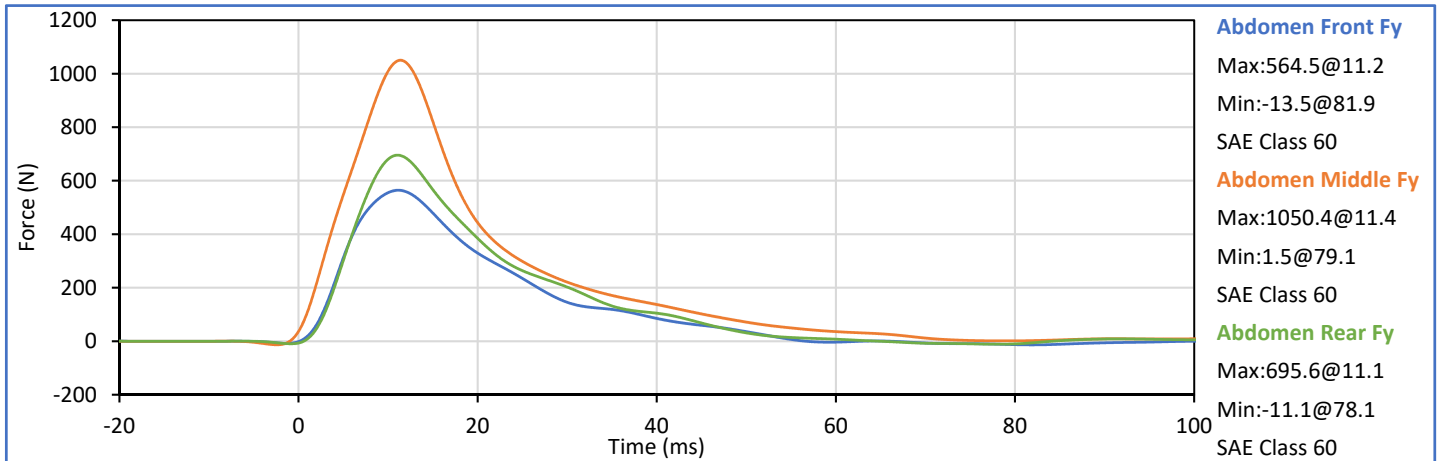
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-03

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Impactor Velocity	m/s	3.90	4.10	4.04	Pass
Peak Impactor Force	kN	4.00	4.80	4.20	Pass
Time of Peak Impactor Force	ms	10.6	13.0	11.9	Pass
Sum of Abdomen Forces	kN	2.20	2.70	2.31	Pass
Time of Peak Sum Abdomen Force	ms	10.0	12.3	11.3	Pass
Overall Test Results					Pass



Technician: *Scotty*

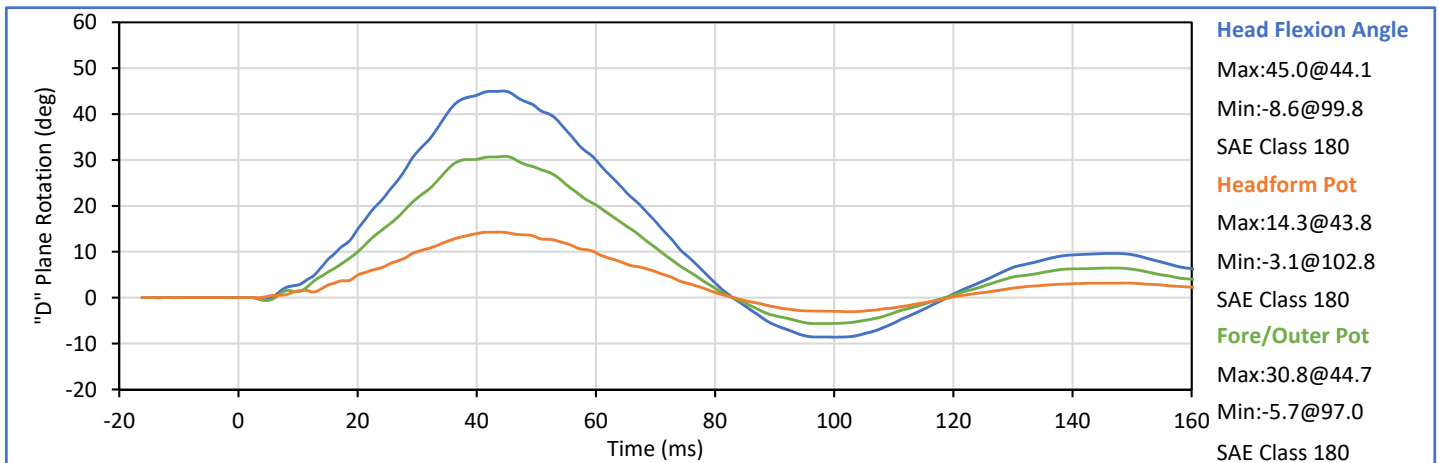
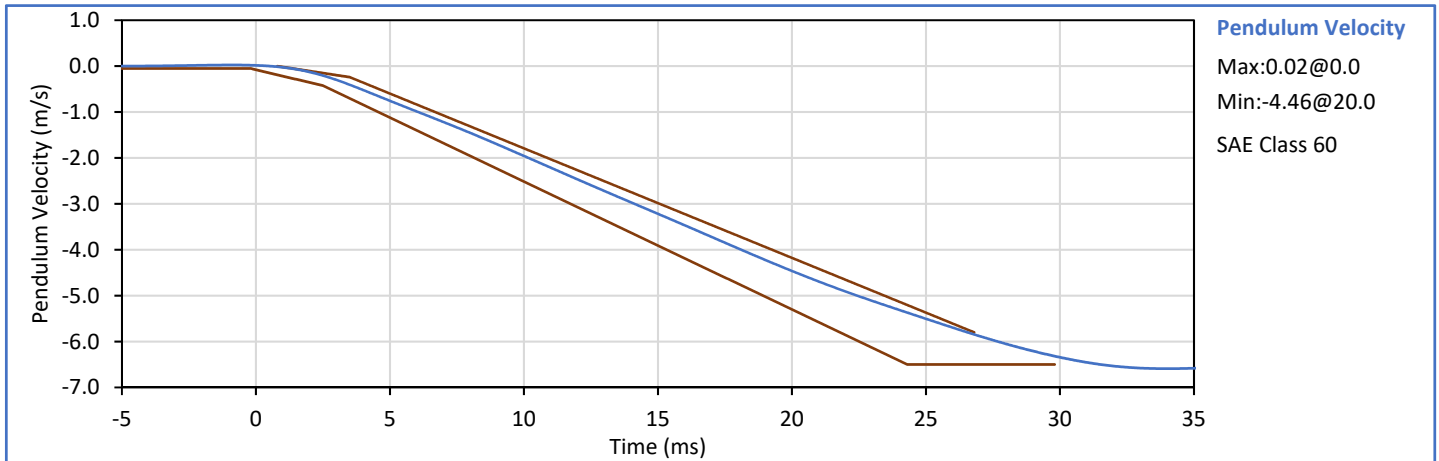
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-01

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.9	Pass
Laboratory Humidity	%	10	70	31	Pass
Pendulum Velocity	m/s	5.95	6.15	6.07	Pass
Peak Headform Flexion	deg	45.0	55.0	45.0	Pass
Time of Peak Headform Flexion	ms	39.0	53.0	44.4	Pass
Flexion Decay (Peak to zero)	ms	37.0	57.0	38.7	Pass
Overall Test Results					Pass



Technician: *Scotty*

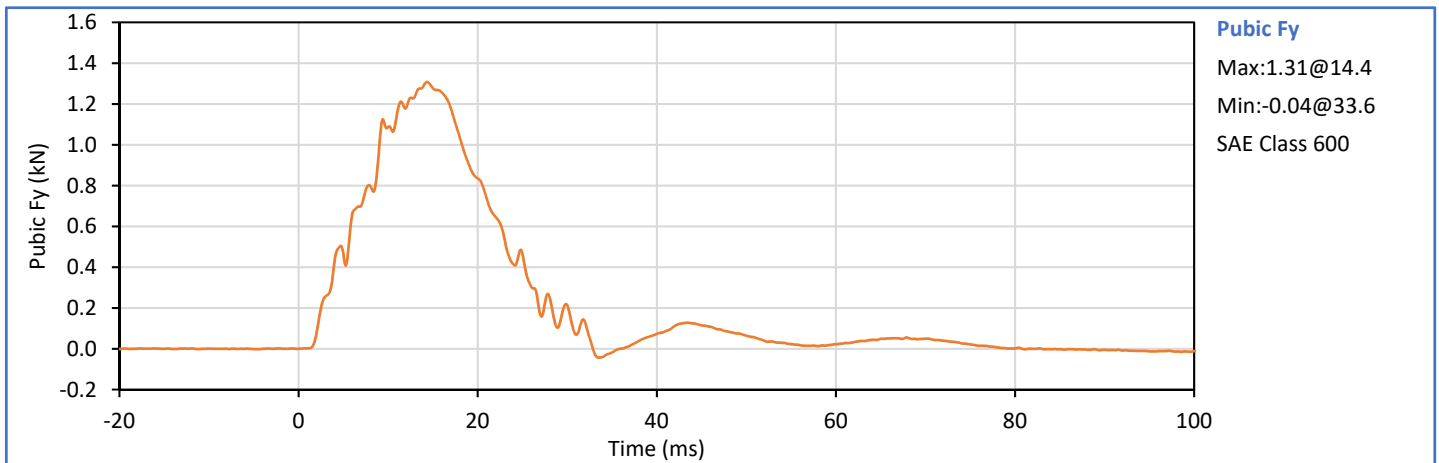
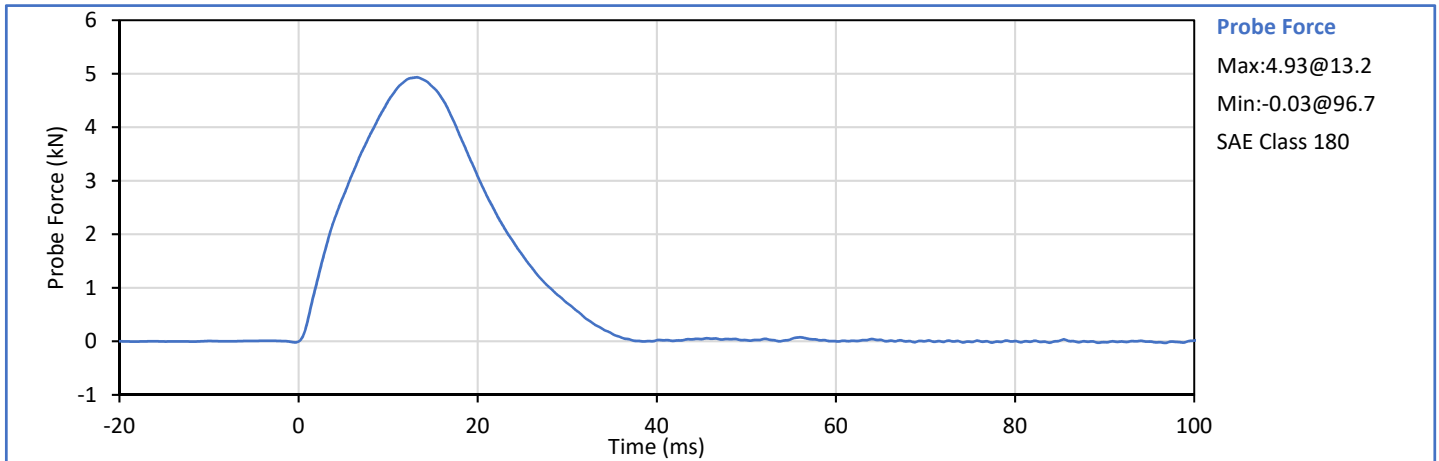
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-03

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Impactor Velocity	m/s	4.20	4.40	4.39	Pass
Peak Impactor Force	kN	4.70	5.40	4.93	Pass
Time of Peak Impactor Force	ms	11.8	16.1	13.2	Pass
Pubic Symphysis Fy	kN	1.23	1.59	1.31	Pass
Time of Peak Pubic Symphysis Fy	ms	12.2	17.0	14.4	Pass
Overall Test Results					Pass



Technician:

Approved By:



**SID-IIs Small Side Impact Dummy
 External Measurements**

ATD Serial No.: 299

Test Date: 2017-11-07

Tested Parameter	Units	Spec Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
A - Sitting Height	mm	772	788	777	Pass
B - Shoulder Pivot Height	mm	437	453	450	Pass
C - Hpoint Height	mm	79	89	85	Pass
D - H Point From Seatback	mm	141	151	147	Pass
E - Shoulder Pivot From Backline	mm	97	107	101	Pass
F - Thigh Clearance	mm	119	135	130	Pass
G - Head Breadth	mm	140	148	148	Pass
H - Head Back From Backline	mm	40	46	42	Pass
I - Head Depth	mm	178	188	186	Pass
J - Head Circumference	mm	541	551	548	Pass
K - Buttock To Knee Length	mm	514	540	532	Pass
L - Popliteal Height	mm	343	369	356	Pass
K - Knee Pivot To Floor Height	mm	392	409	401	Pass
N - Buttock Popliteal Length	mm	416	442	431	Pass
O - Chest Depth W/O Jacket	mm	195	211	203	Pass
P - Foot Length	mm	216	232	225	Pass
Q - Hip Breadth (W/Pelvic Plugs)	mm	313	323	316	Pass
R - Arm Length	mm	249	259	255	Pass
S - Knee Joint To Seatback	mm	477	493	487	Pass
V - Shoulder Width	mm	341	357	356	Pass
W - Foot Width	mm	78	94	86	Pass
Y - Chest Circumference W/Jacket	mm	851	881	866	Pass
Z - Waist Circumference	mm	761	791	773	Pass
Overall Test Results					Pass

Technician:

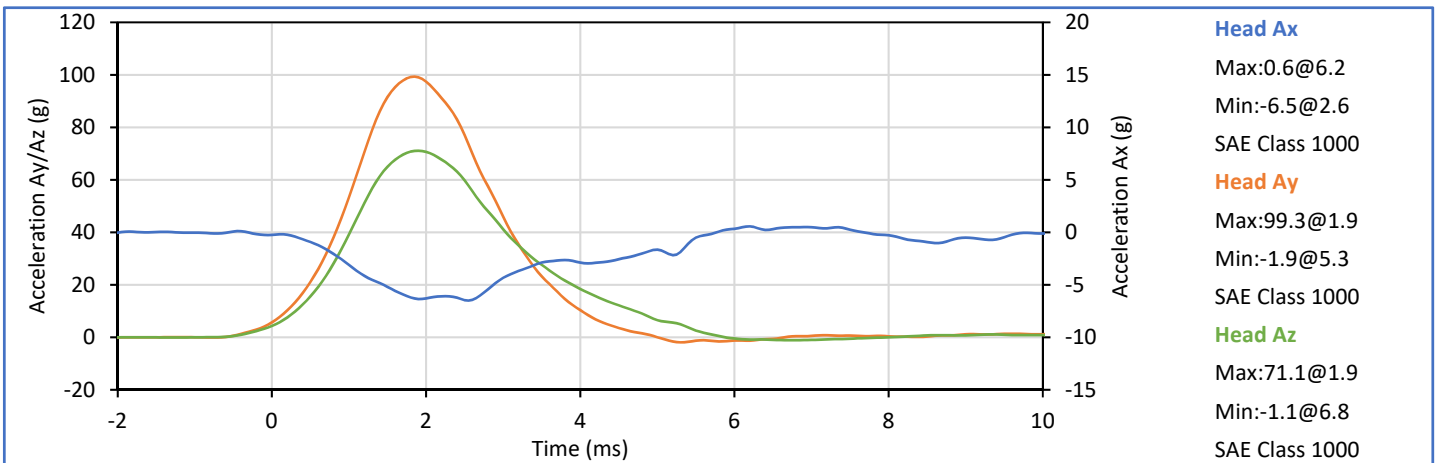
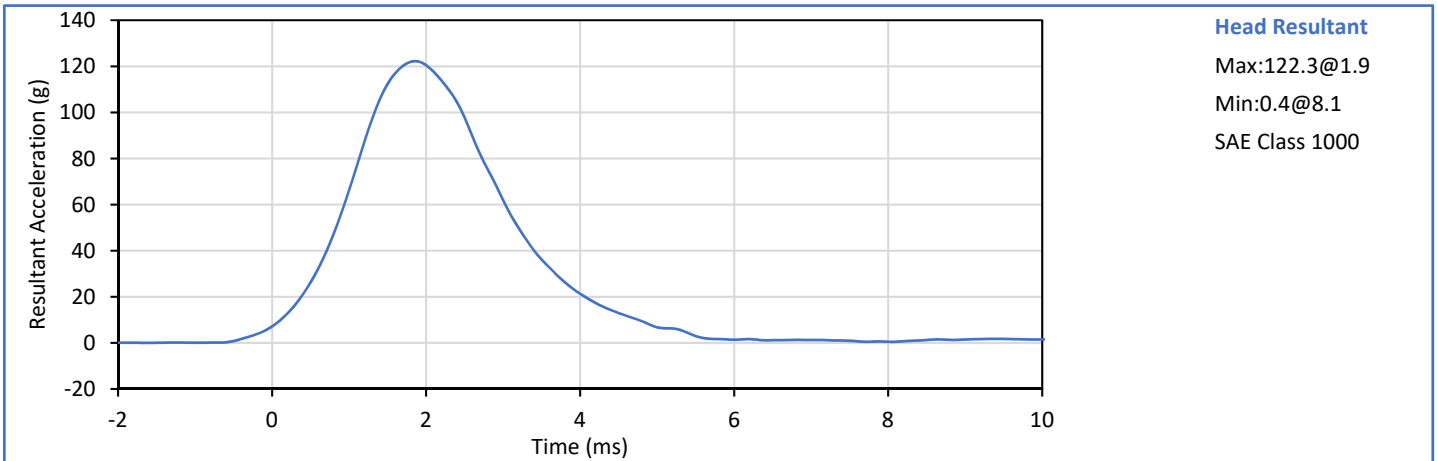
Approved By:



ATD Serial No.: 299

Test Date: 2017-11-06

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.9	Pass
Laboratory Humidity	%	10	70	32	Pass
Peak Resultant Acceleration	g	115.0	137.0	122.3	Pass
Peak Head Ax	g	-15.0	15.0	-6.5	Pass
Oscillations After Main Pulse	%	0.0	15.0	1.4	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
Overall Test Results					Pass



Technician: *Smith*

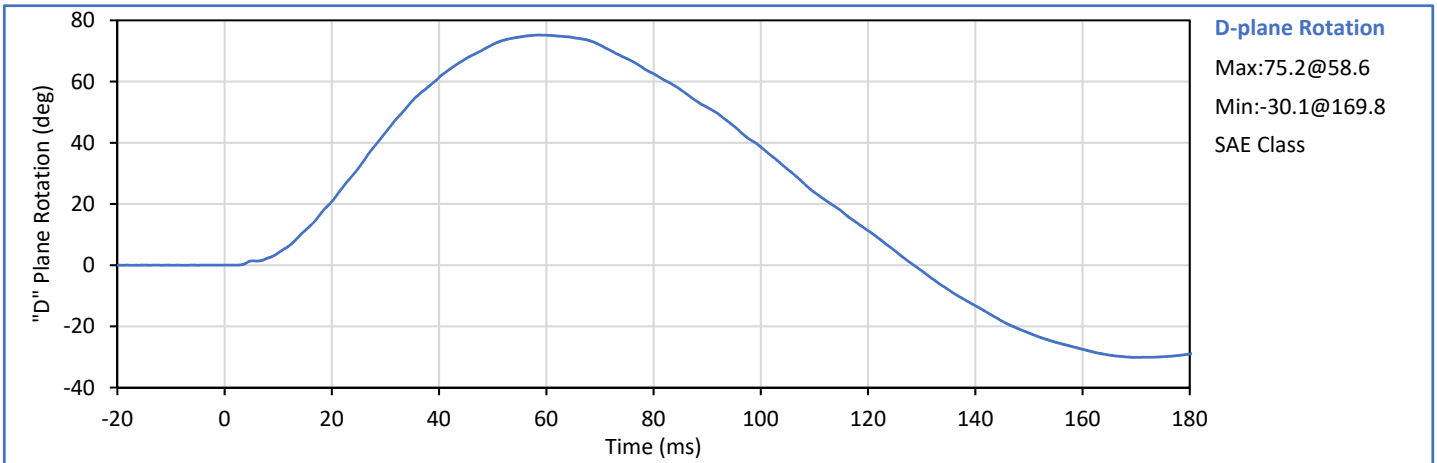
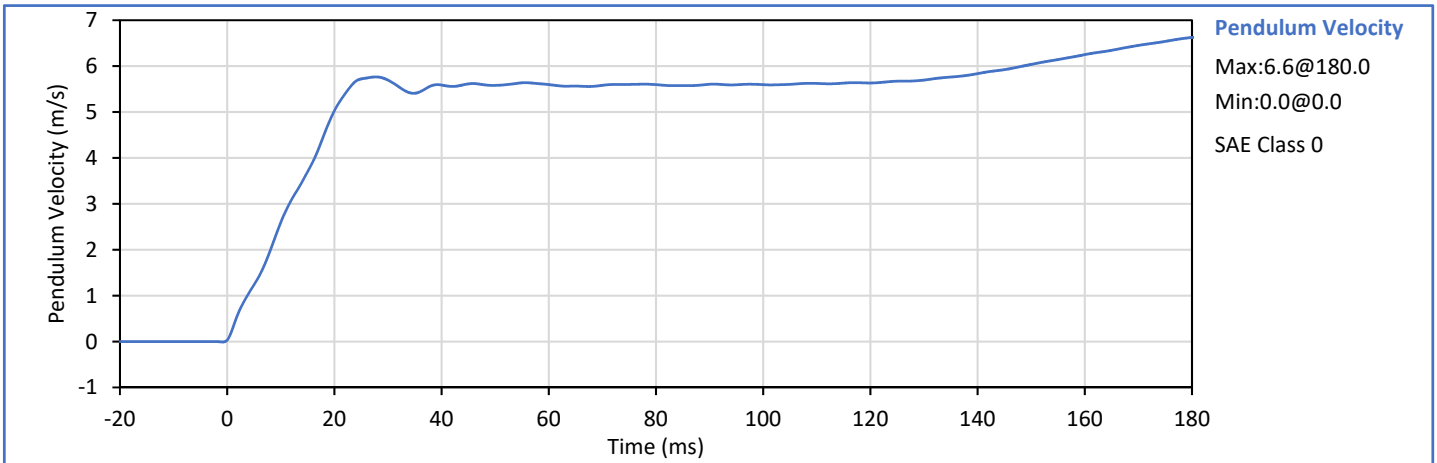
Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-06

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	30	Pass
Pendulum Velocity	m/s	5.51	5.63	5.52	Pass
Pendulum Decel at 10 ms	m/s	2.20	2.80	2.59	Pass
Pendulum Decel at 15 ms	m/s	3.30	4.10	3.70	Pass
Pendulum Decel at 20 ms	m/s	4.40	5.40	5.03	Pass
Pendulum Decel at 25 ms	m/s	5.40	6.10	5.72	Pass
Pendulum Decel from 25-100 ms	m/s	5.50	6.20	5.77	Pass
Peak "D" Plane Rotation	deg	71.0	81.0	75.2	Pass
Time of Peak "D" Plane Rotation	ms	50.0	70.0	58.6	Pass
Peak Occ. Condyle Moment	Nm	-44.0	-36.0	-42.7	Pass
Time of Moment Decay to 0 Nm	ms	102.0	126.0	111.1	Pass
Overall Test Results					Pass



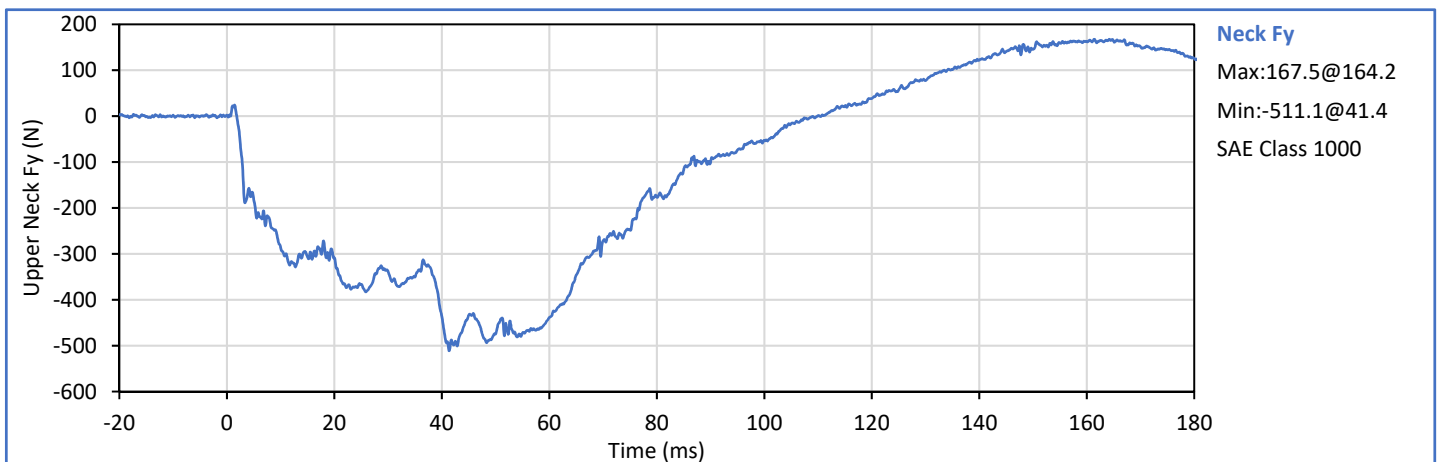
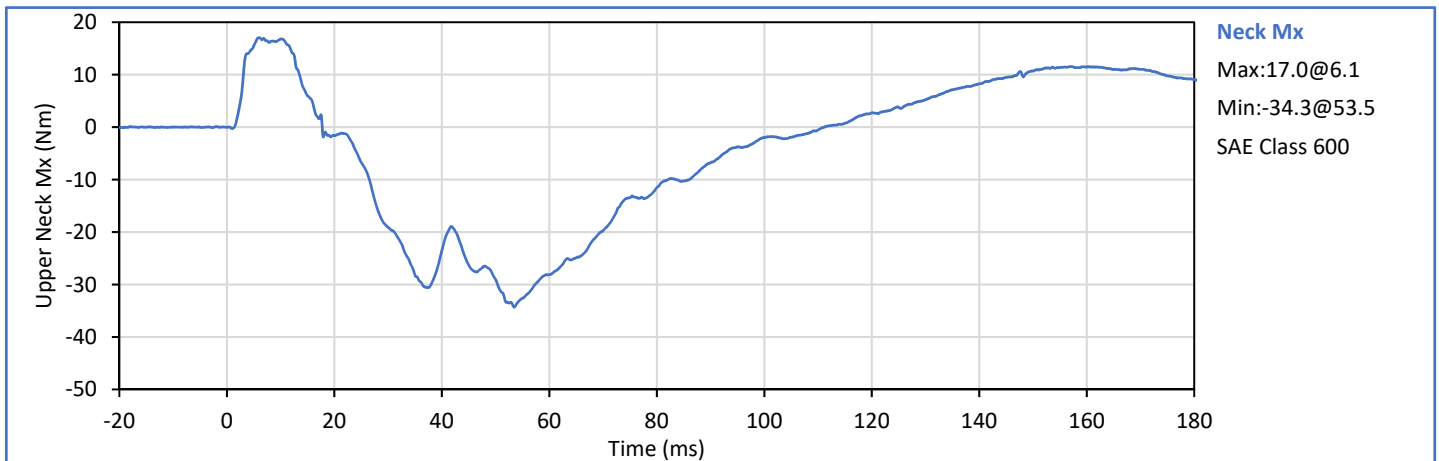
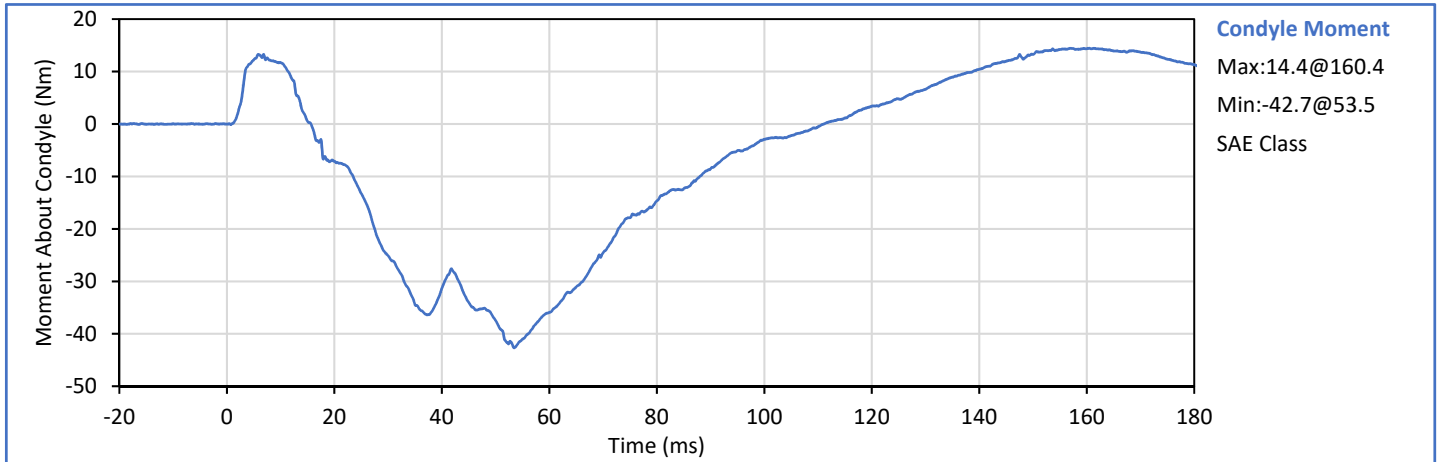
Technician: *Scotty*

Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-06

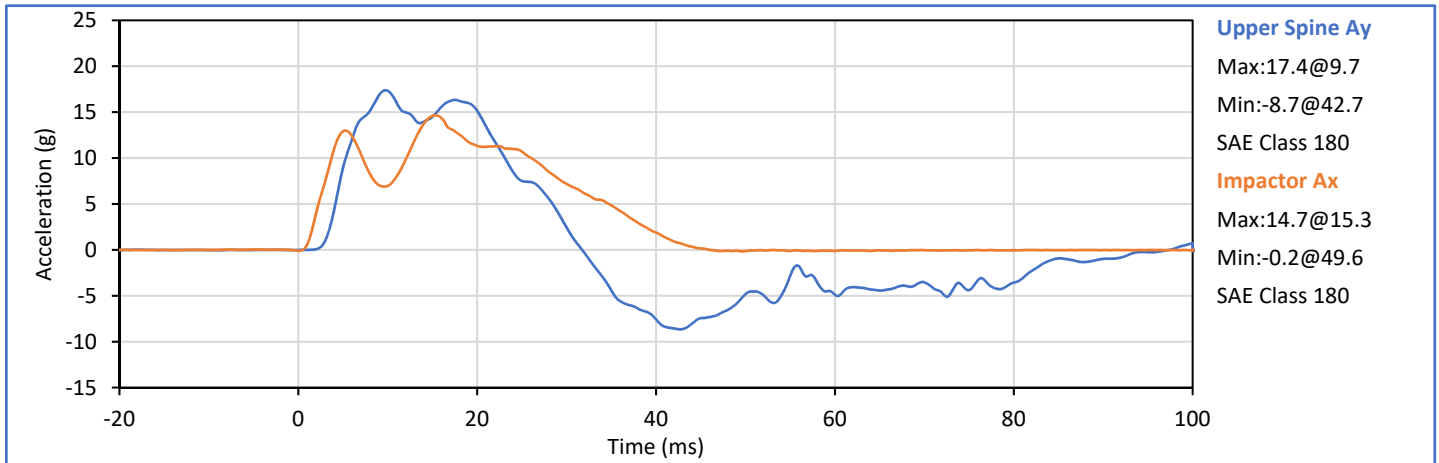
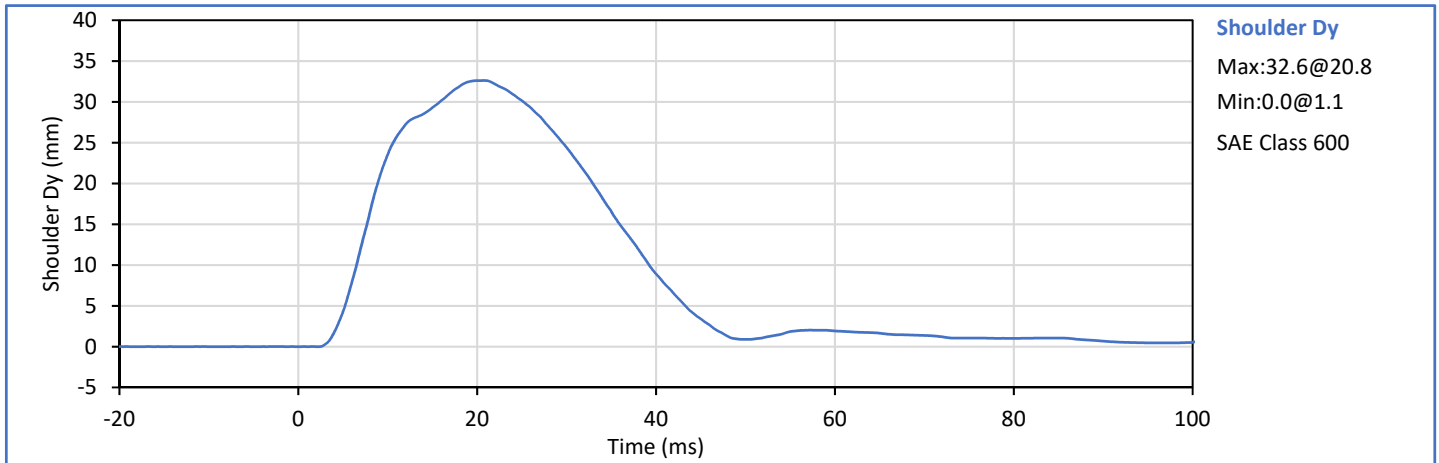




ATD Serial No.: 299

Test Date: 2017-11-06

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	20.8	Pass
Laboratory Humidity	%	10	70	33	Pass
Impactor Velocity	m/s	4.20	4.40	4.34	Pass
Peak Shoulder Dy	mm	28.0	37.0	32.6	Pass
Peak Upper Spine (T1) Ay	g	17.0	22.0	17.4	Pass
Peak Impactor Ax	g	13.0	18.0	14.7	Pass
Overall Test Results					Pass



Technician: *Scotty*

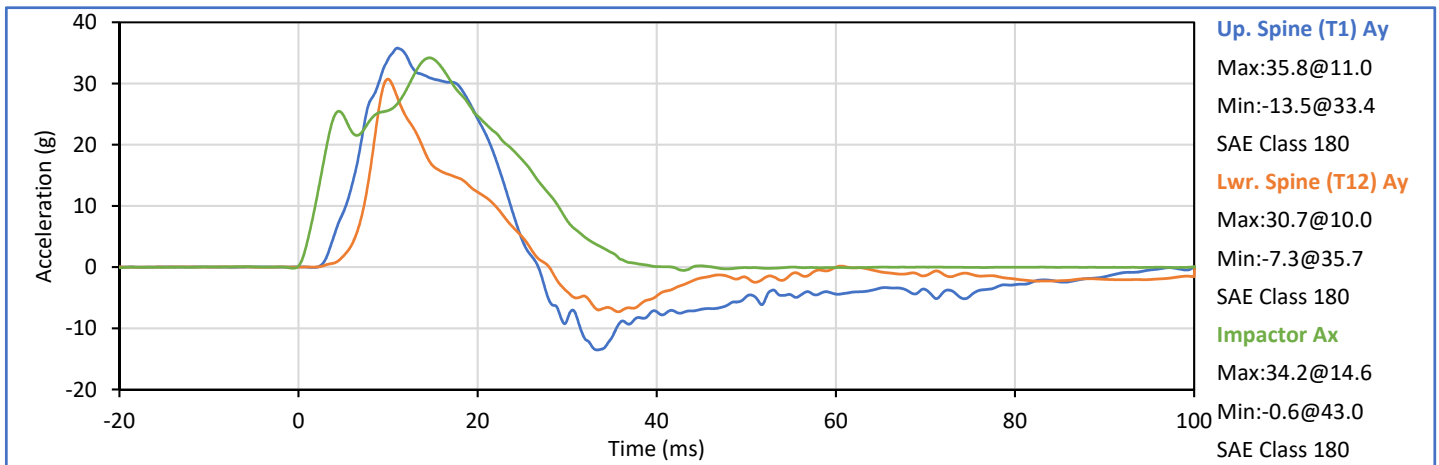
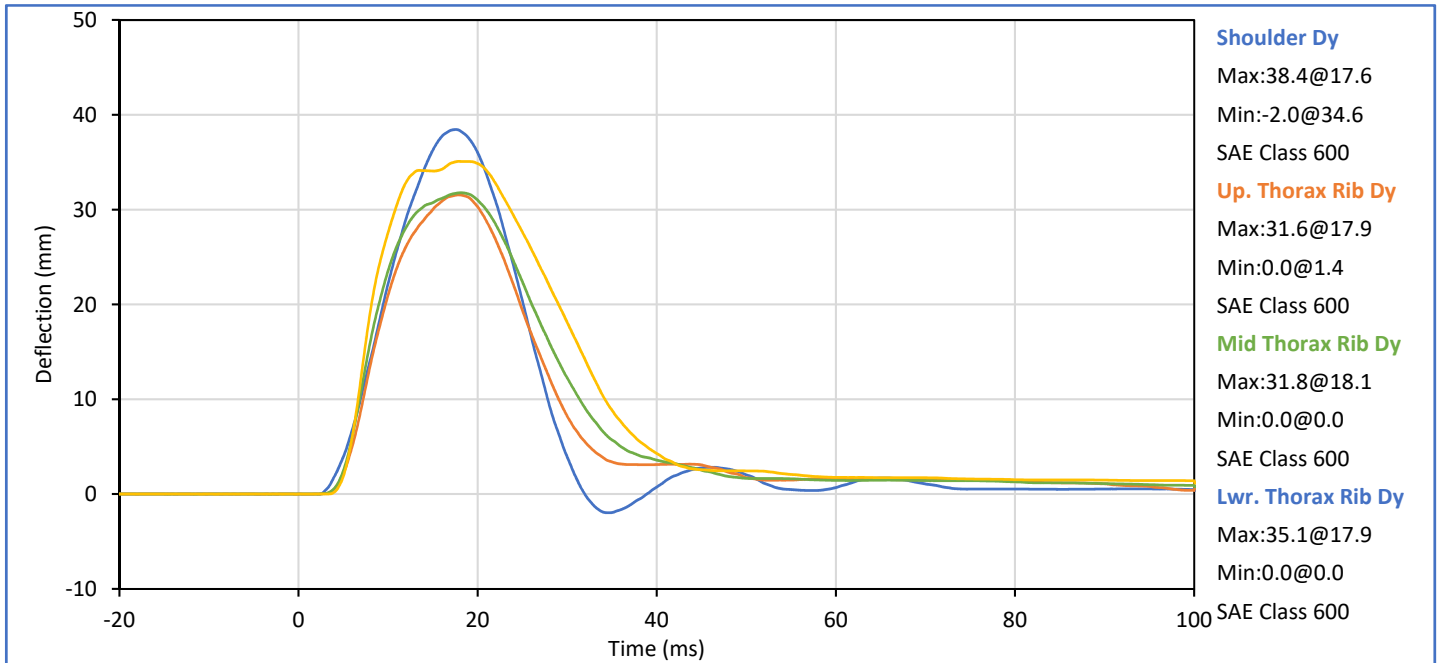
Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-06

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Humidity	%	10	70	30	Pass
Impactor Velocity	m/s	6.60	6.80	6.72	Pass
Peak Shoulder Dy	mm	31.0	40.0	38.4	Pass
Peak Upper Rib Dy	mm	25.0	32.0	31.6	Pass
Peak Middle Rib Dy	mm	30.0	36.0	31.8	Pass
Peak Lower Rib Dy	mm	32.0	38.0	35.1	Pass
Peak Upper Spine (T1) Ay	g	34.0	43.0	35.8	Pass
Peak Lower Spine (T12) Ay	g	29.0	37.0	30.7	Pass
Peak Impactor Ax	g	30.0	36.0	34.2	Pass
Overall Test Results					Pass



Technician: *Scotty*

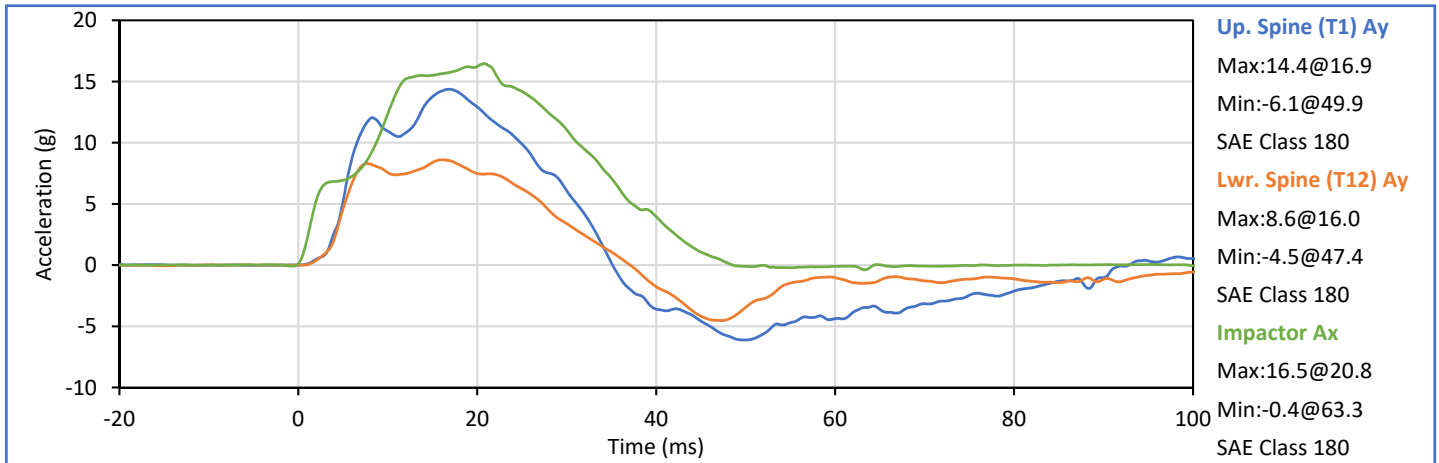
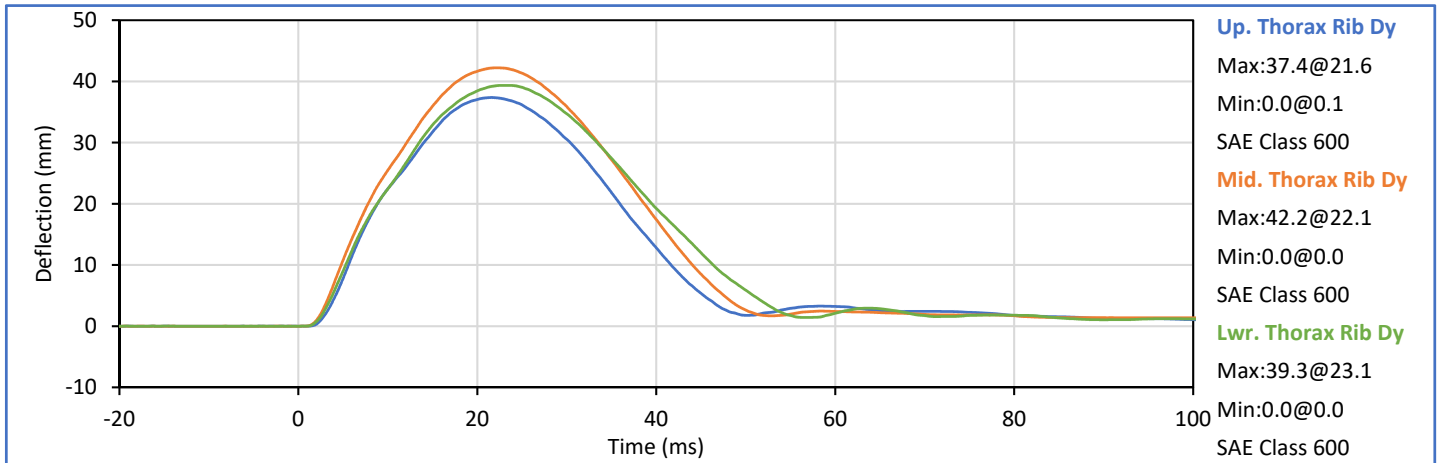
Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-06

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	31	Pass
Impactor Velocity	m/s	4.20	4.40	4.35	Pass
Peak Upper Rib Dy	mm	32.0	40.0	37.4	Pass
Peak Middle Rib Dy	mm	39.0	45.0	42.2	Pass
Peak Lower Rib Dy	mm	35.0	43.0	39.3	Pass
Peak Upper Spine (T1) Ay	g	13.0	17.0	14.4	Pass
Peak Lower Spine (T12) Ay	g	7.0	11.0	8.6	Pass
Peak Impactor Ax	g	14.0	18.0	16.5	Pass
Overall Test Results					Pass



Technician: *Scotty*

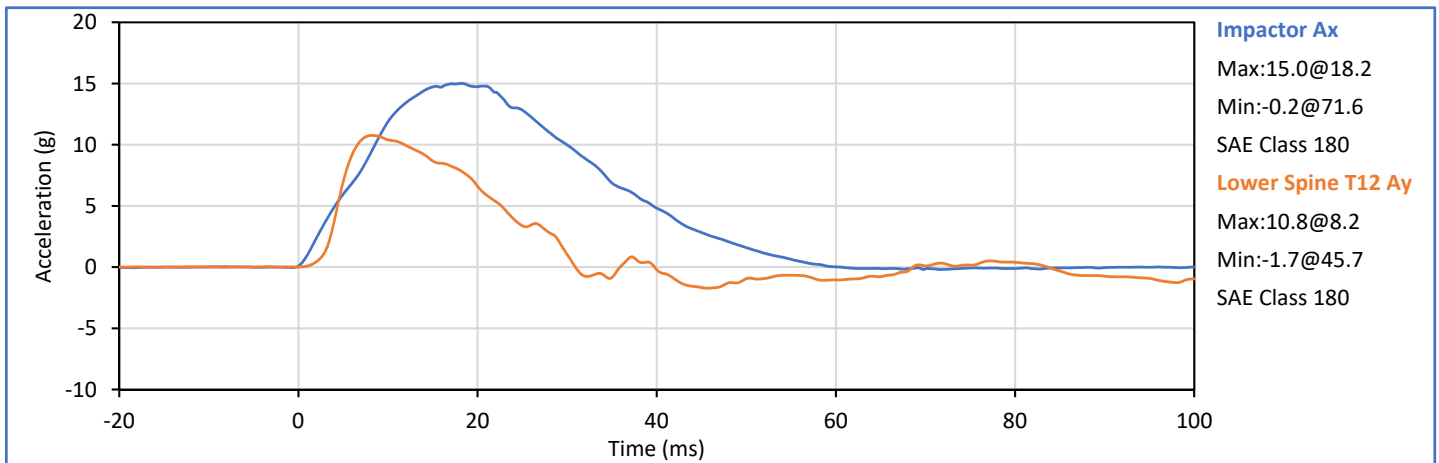
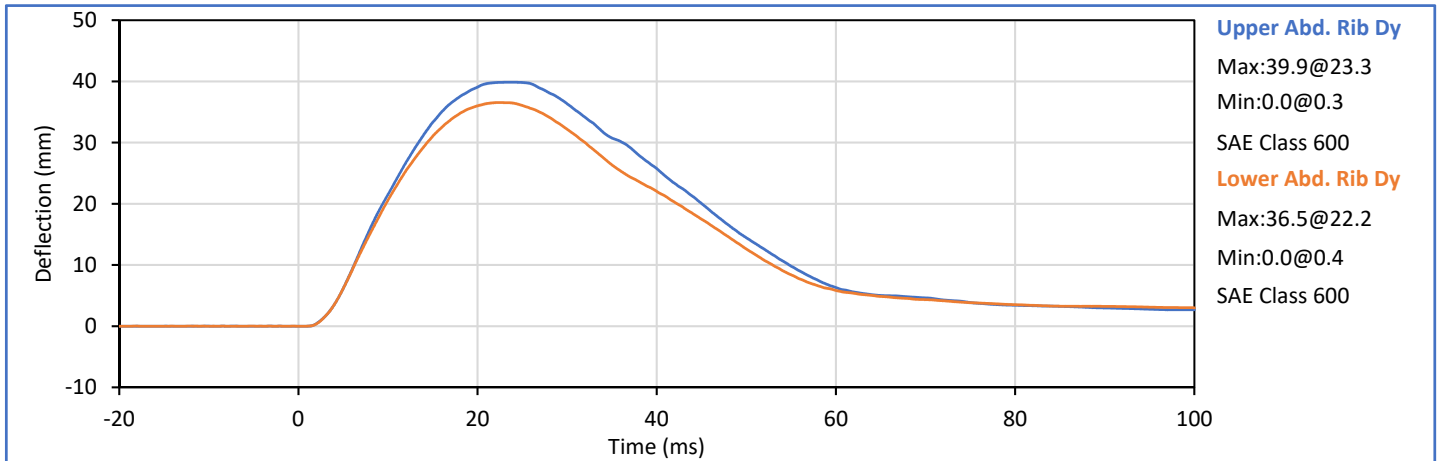
Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-06

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.6	Pass
Laboratory Humidity	%	10	70	32	Pass
Impactor Velocity	m/s	4.20	4.40	4.35	Pass
Peak Upper Abdomen Rib Dy	mm	36.0	47.0	39.9	Pass
Peak Lower Abdomen Rib Dy	mm	33.0	44.0	36.5	Pass
Peak Lower Spine T12 Ay	mm	9.0	14.0	10.8	Pass
Peak Impactor Ax	g	12.0	16.0	15.0	Pass
Overall Test Results					Pass



Technician: *Scotty*

Approved By: *Wep*

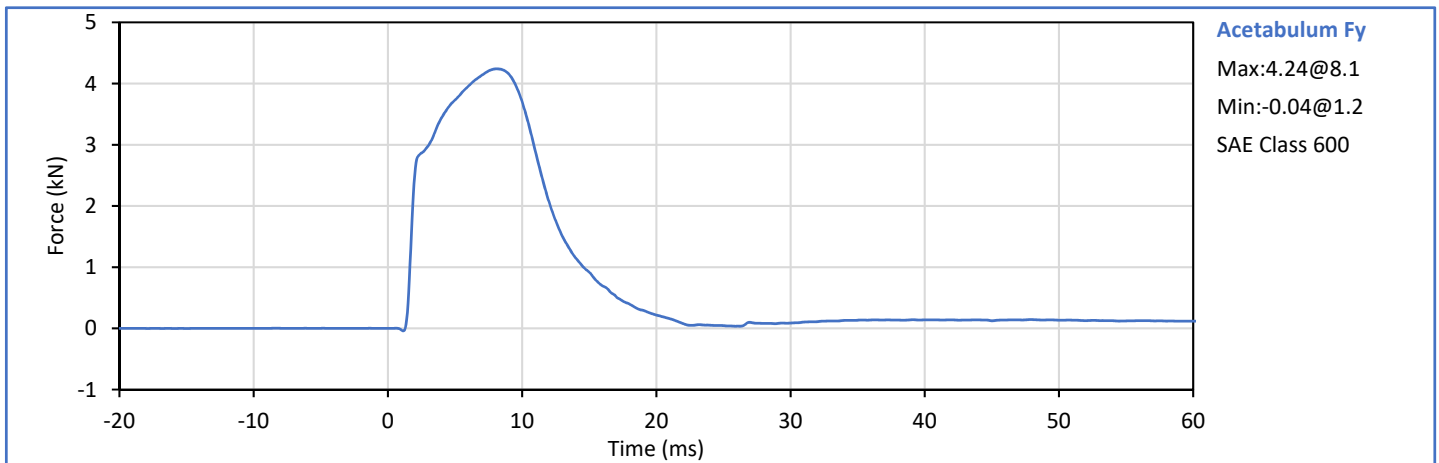
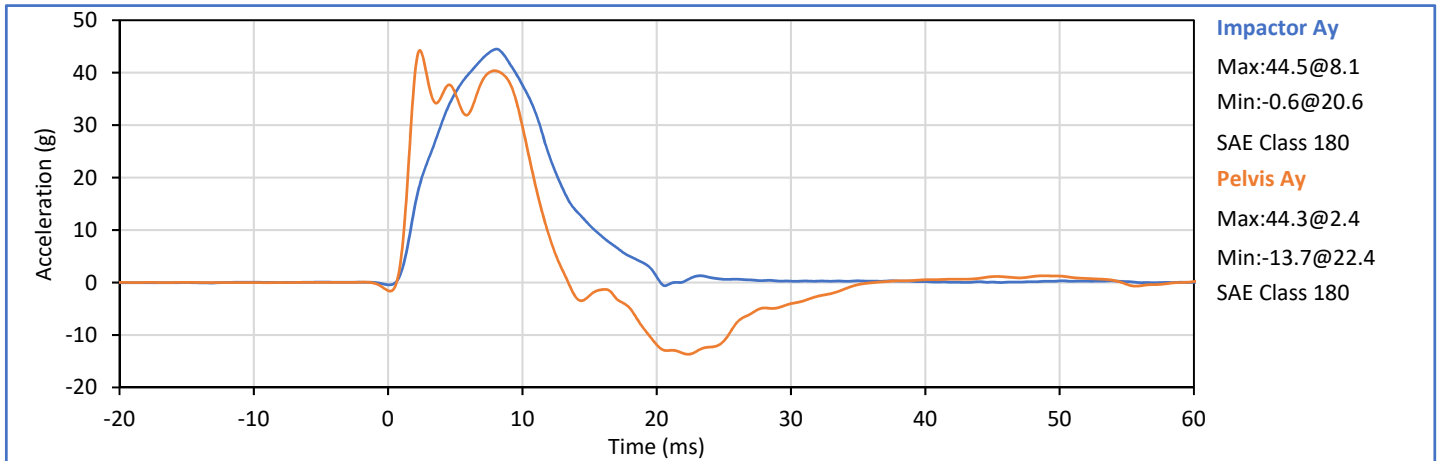


ATD Serial No.: 299

Test Date: 2017-11-06

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Impactor Velocity	m/s	6.60	6.80	6.68	Pass
Peak Acetabulum Fy	kN	3.600	4.300	4.241	Pass
Pelvis Ay after 6ms	g	34.0	42.0	40.4	Pass
Peak Impactor Ax	g	38.0	47.0	44.5	Pass
Overall Test Results					Pass

Pelvis Plug S/N: 70806 (HIS)



Technician: *Scotty*

Approved By: *Wep*

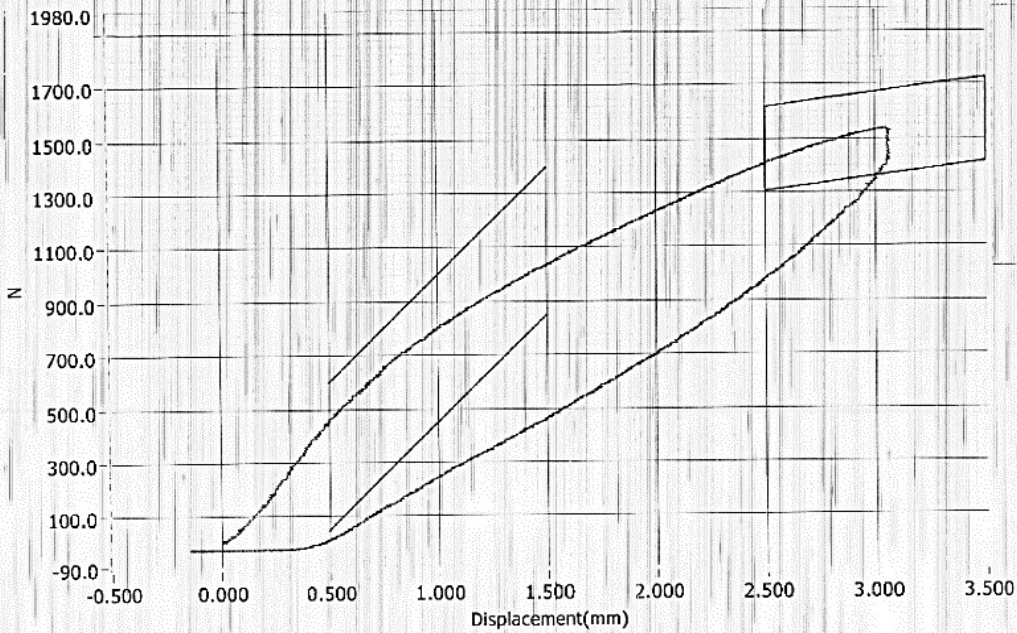


ATD Serial No.: 299

Test Date: 2017-11-06

Pelvis Plug S/N: 70806 (HIS)

Resultant Data - SIDIIs Plug Compression



- Loading Curve
- Boundary Limit Upper
- Boundary Limit Lower
- Peak Load Upper
- Peak Load Lower
- Peak Defl Upper
- Peak Defl Lower

1530N

ATD Calibration Lab

Test ID	Part Serial Number	Test Date	Test Time
	70806	12/13/2013	4:49 PM
Cert ID	ATD Serial Number	ATD Type	
	N/A	SIDIIs	

Current Date : 12/13/2013

Current Time : 16:49:43



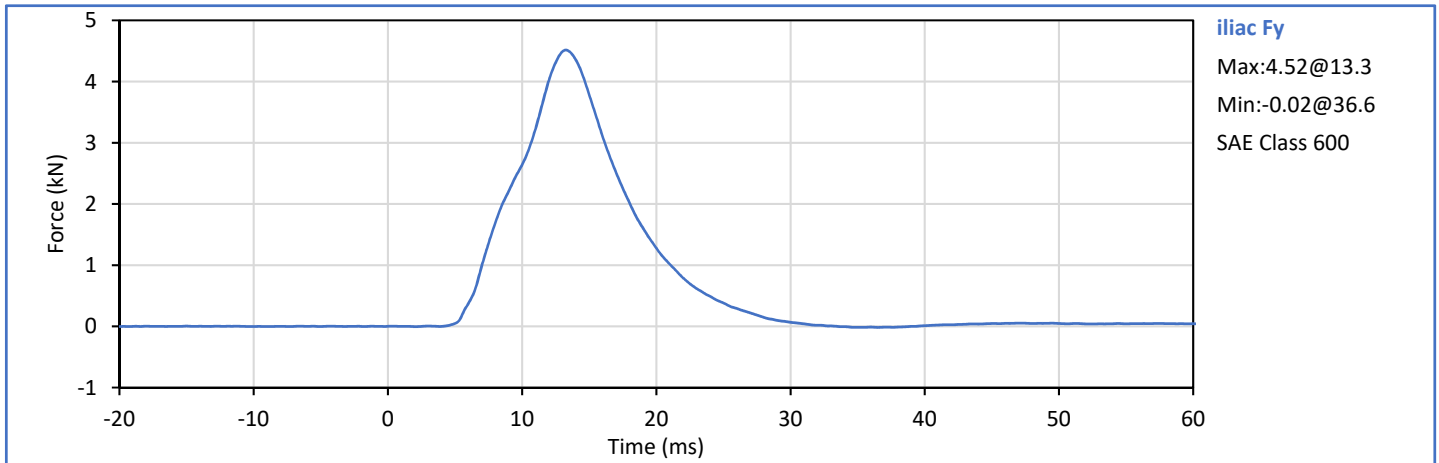
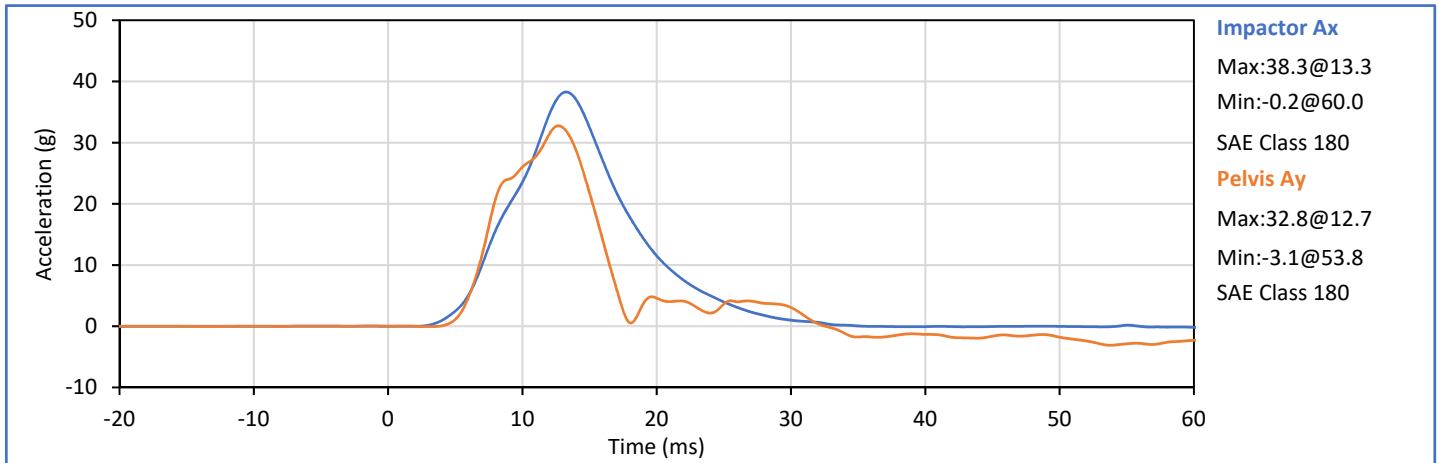
ATD Serial No.: 299

Test Date: 2017-11-07

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Impactor Velocity	m/s	4.20	4.40	4.30	Pass
Peak Acetabulum Fy	kN	4.100	5.100	4.515	Pass
Pelvis Ay	g	28.0	39.0	32.8	Pass
Peak Impactor Ax	g	36.0	45.0	38.3	Pass
Overall Test Results					Pass

Pelvis Plug S/N: 71052 (HIS) *

* Plug is not impacted and remains certified



Technician:

Approved By:

APPENDIX C
POST-TEST ATD CONFIGURATION AND PERFORMANCE VERIFICATION DATA



ES-2re 50th Male Side Impact ATD
External Measurements

ATD Serial No.: F037

Test Date: 2017-11-13

Tested Parameter	Units	Spec Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
1 - Sitting Height	mm	900	918	906	Pass
2 - Seat to Shoulder Joint	mm	558	572	564	Pass
3 - Seat to Lower Face of Thoracic Spine Box	mm	346	356	352	Pass
4 - Seat to Hip Joint (bolt center)	mm	97	103	102	Pass
5 - Sole to Seat, Sitting	mm	333	451	385	Pass
6 - Head Width	mm	152	158	156	Pass
7 - Shoulder/Arm Width	mm	461	479	472	Pass
8 - Thorax Width	mm	322	332	328	Pass
9 - Abdomen Width	mm	273	287	281	Pass
10 - Pelvis Lap Width	mm	359	373	364	Pass
11 - Head Depth	mm	196	206	205	Pass
12 - Thorax Depth	mm	262	272	267	Pass
13 - Abdomen Depth	mm	194	204	199	Pass
14 - Pelvis Depth	mm	235	245	243	Pass
15 - Back of Buttocks to Hip Joint (bolt Center)	mm	150	160	155	Pass
16 - Back of Buttocks to Front Knee	mm	597	615	601	Pass
				Overall Test Results	Pass

Technician: *Scott G*

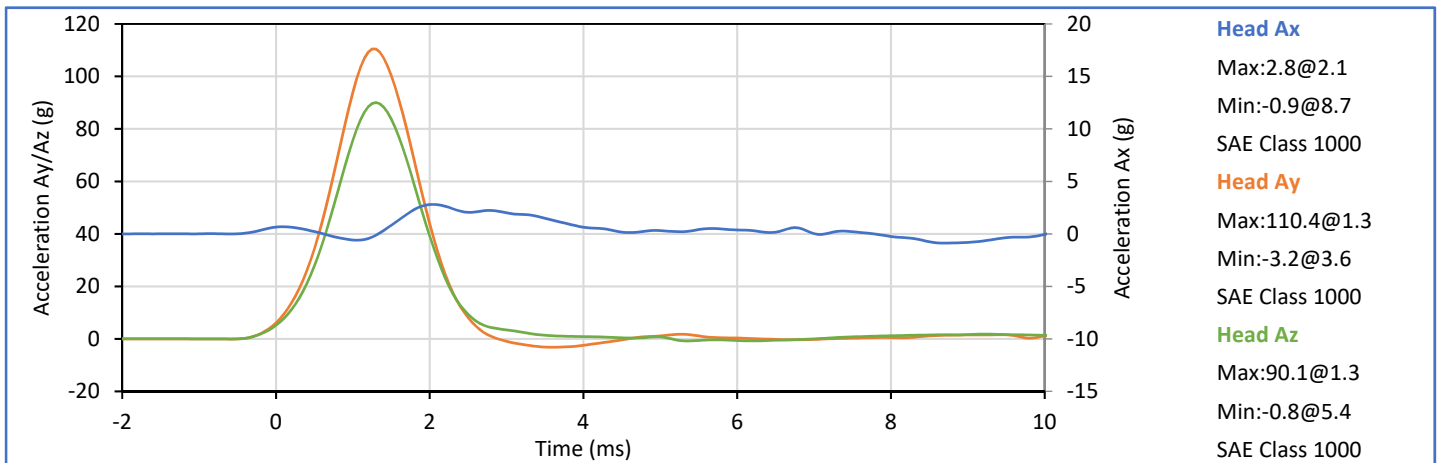
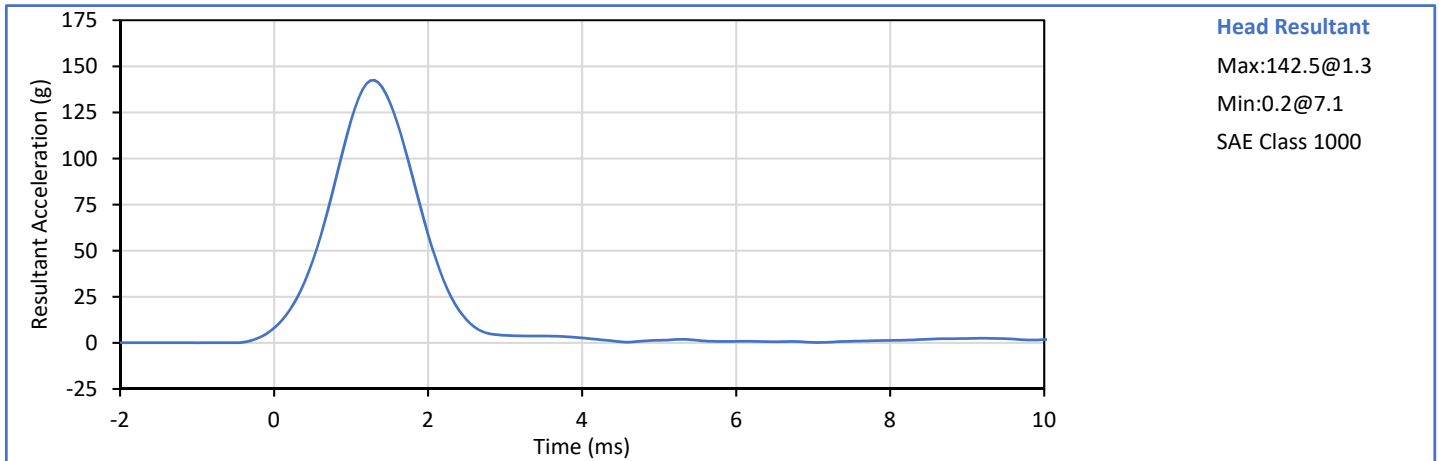
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-13

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Peak Resultant Acceleration	g	125.0	155.0	142.5	Pass
Peak Head Ax	g	-15.0	15.0	2.8	Pass
Oscillations After Main Pulse	%	0.0	15.0	1.7	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
Overall Test Results					Pass



Technician: *Smith*

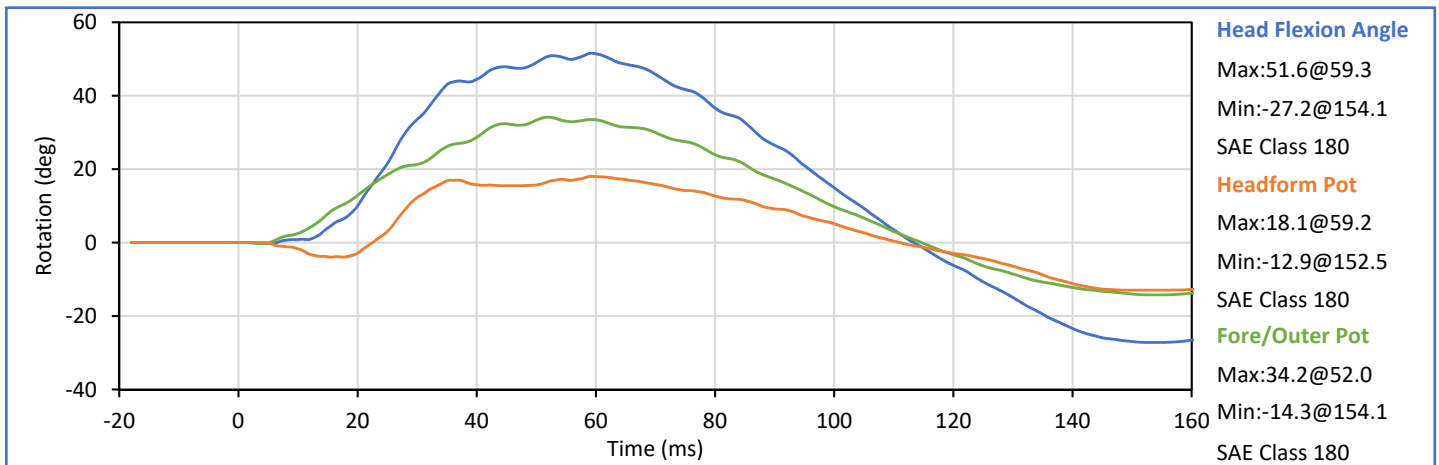
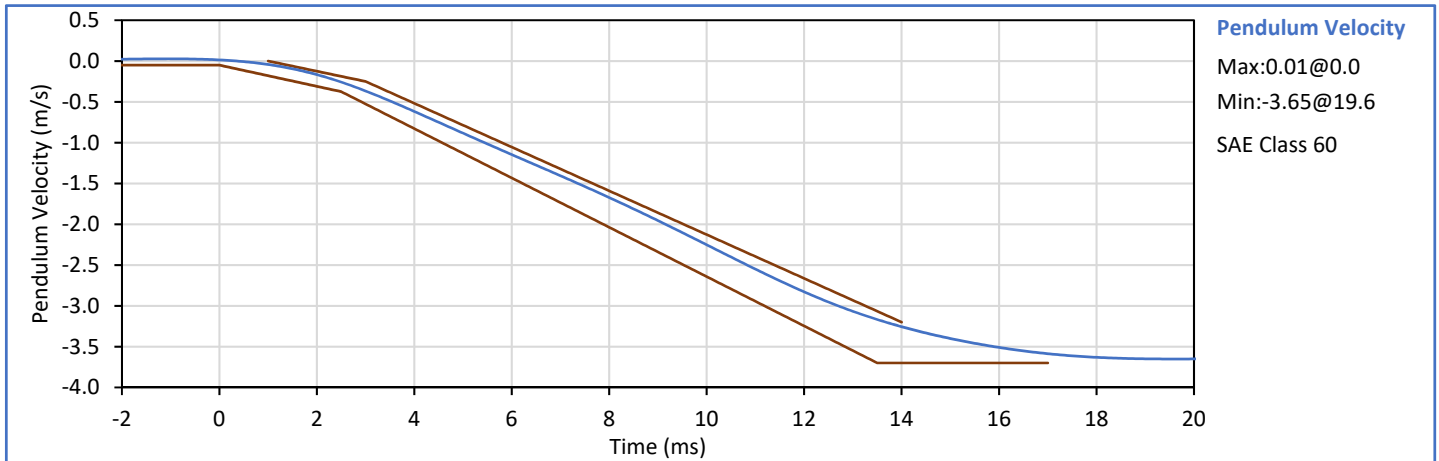
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-13

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.9	Pass
Laboratory Humidity	%	10	70	31	Pass
Pendulum Velocity	m/s	3.30	3.50	3.49	Pass
Peak Headform Flexion	deg	49.0	59.0	51.6	Pass
Time of Peak Headform Flexion	ms	54.0	66.0	59.3	Pass
Flexion Decay (Peak to zero)	ms	53.0	88.0	54.2	Pass
Overall Test Results					Pass



Technician: *Scotty*

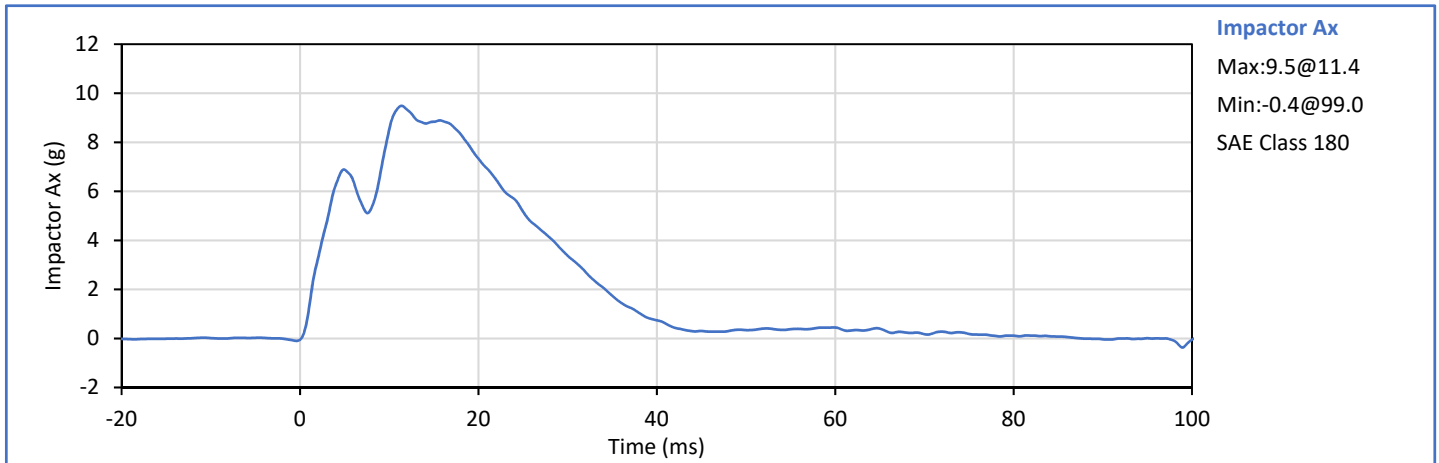
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Humidity	%	10	70	32	Pass
Impactor Velocity	m/s	4.20	4.40	4.27	Pass
Peak Impactor Ax	g	7.5	10.5	9.9	Pass
Overall Test Results					Pass



Technician: *Scotty*

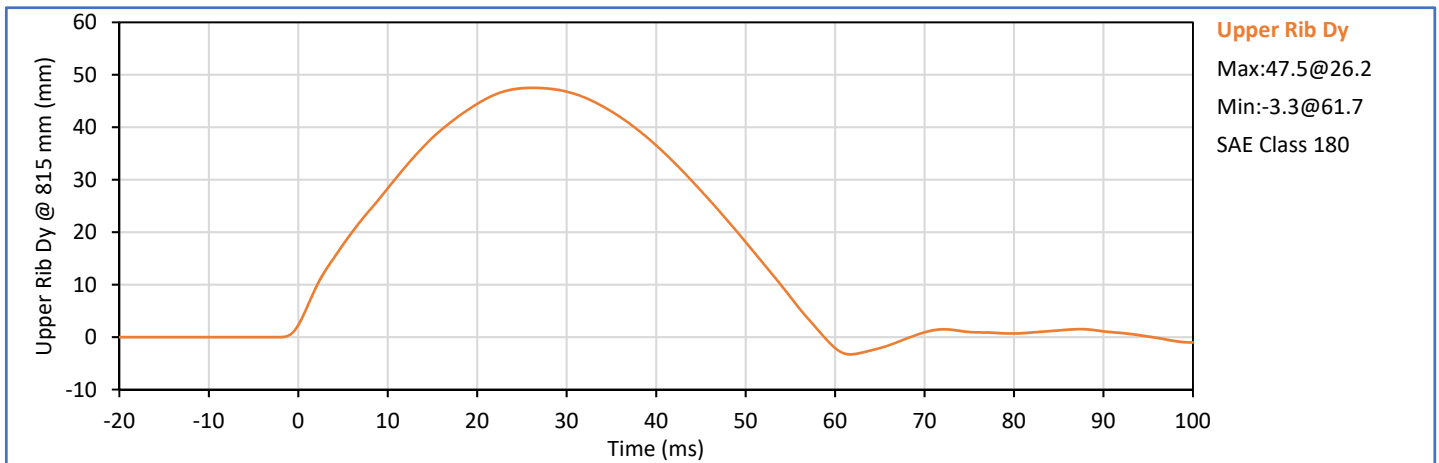
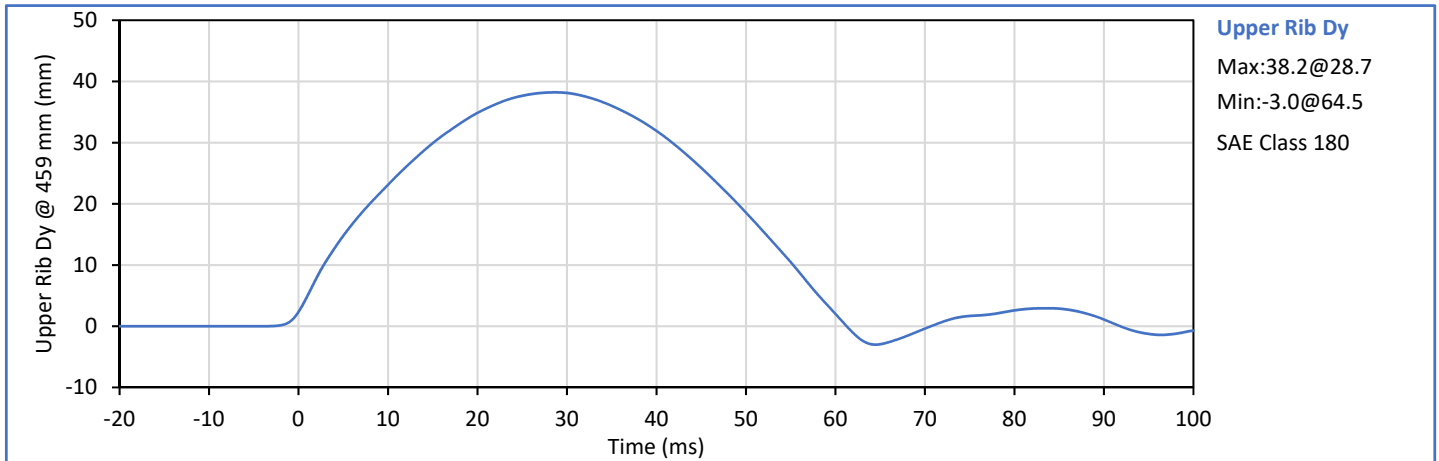
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-09

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Upper Rib Dy @ (459mm)	mm	36.0	40.0	38.2	Pass
Upper Rib Dy @ (815mm)	mm	46.0	51.0	47.5	Pass
Overall Test Results					Pass



Technician:

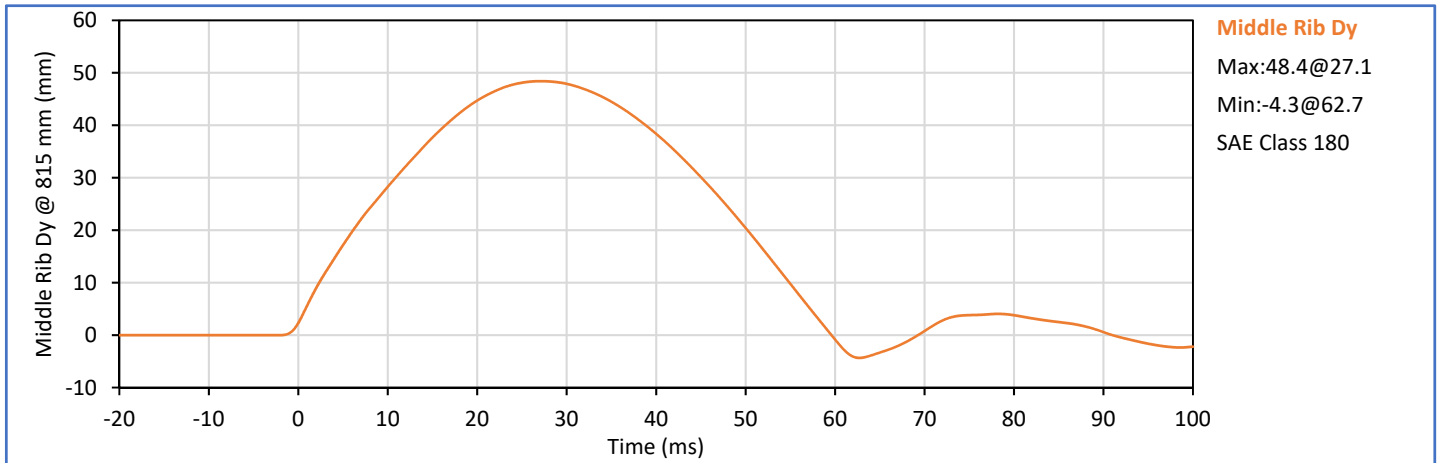
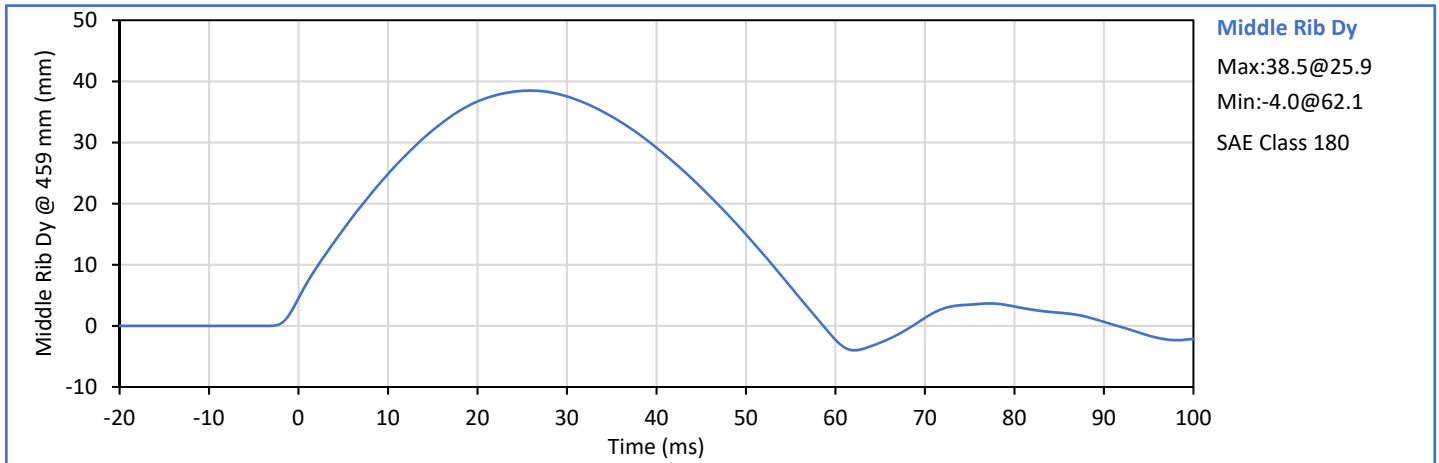
Approved By:



ATD Serial No.: F037

Test Date: 2017-11-09

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.6	Pass
Laboratory Humidity	%	10	70	33	Pass
Middle Rib Dy @ (459mm)	mm	36.0	40.0	38.5	Pass
Middle Rib Dy @ (815mm)	mm	46.0	51.0	48.4	Pass
Overall Test Results					Pass



Technician:

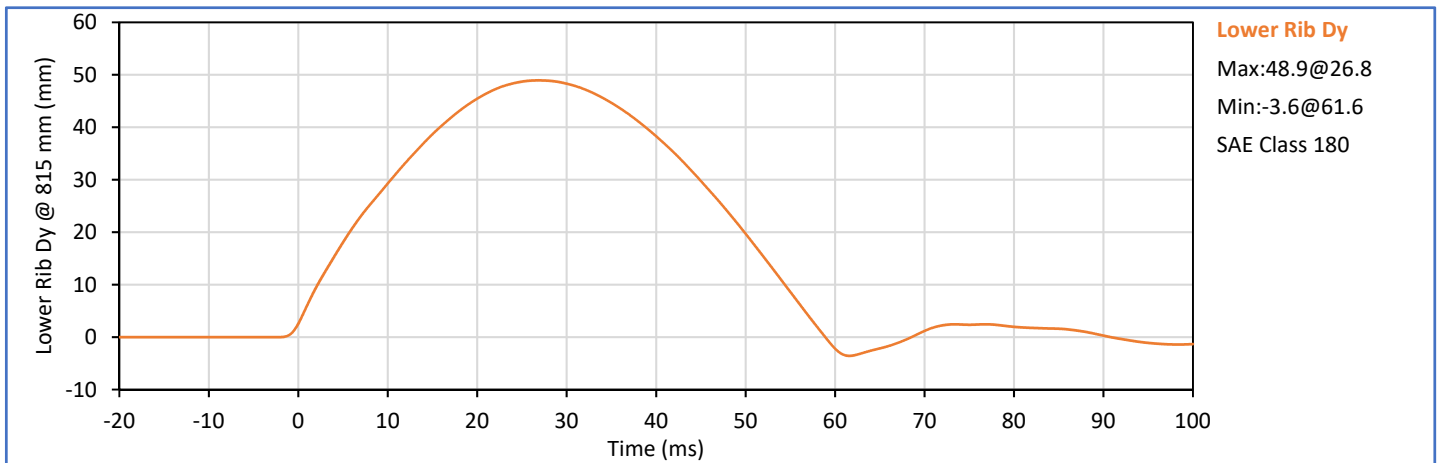
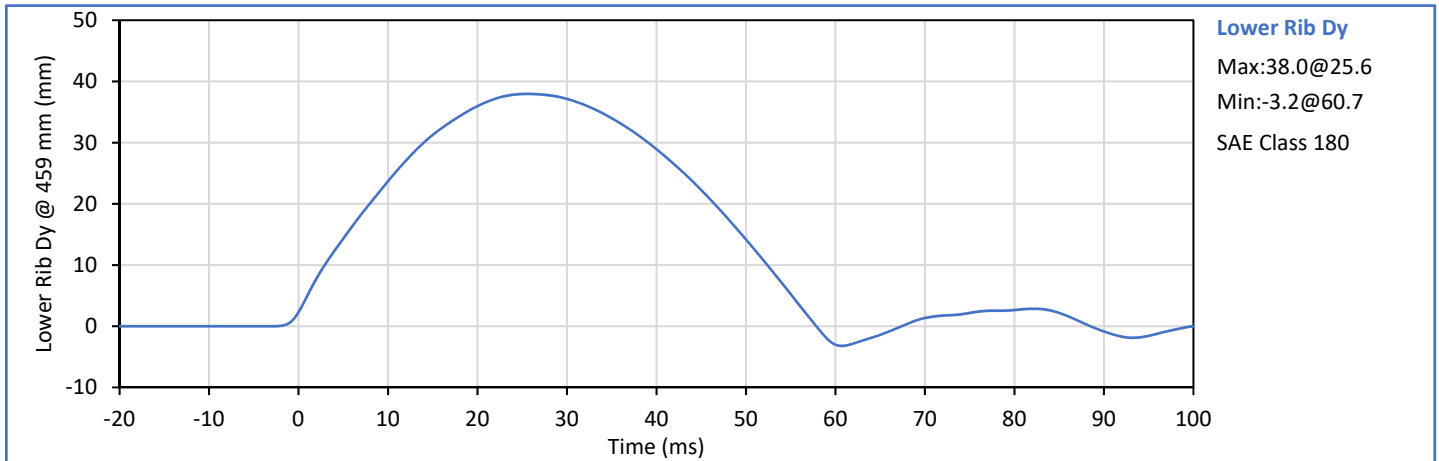
Approved By:



ATD Serial No.: F037

Test Date: 2017-11-09

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Humidity	%	10	70	34	Pass
Lower Rib Dy @ (459mm)	mm	36.0	40.0	38.0	Pass
Lower Rib Dy @ (815mm)	mm	46.0	51.0	48.9	Pass
Overall Test Results					Pass



Technician:

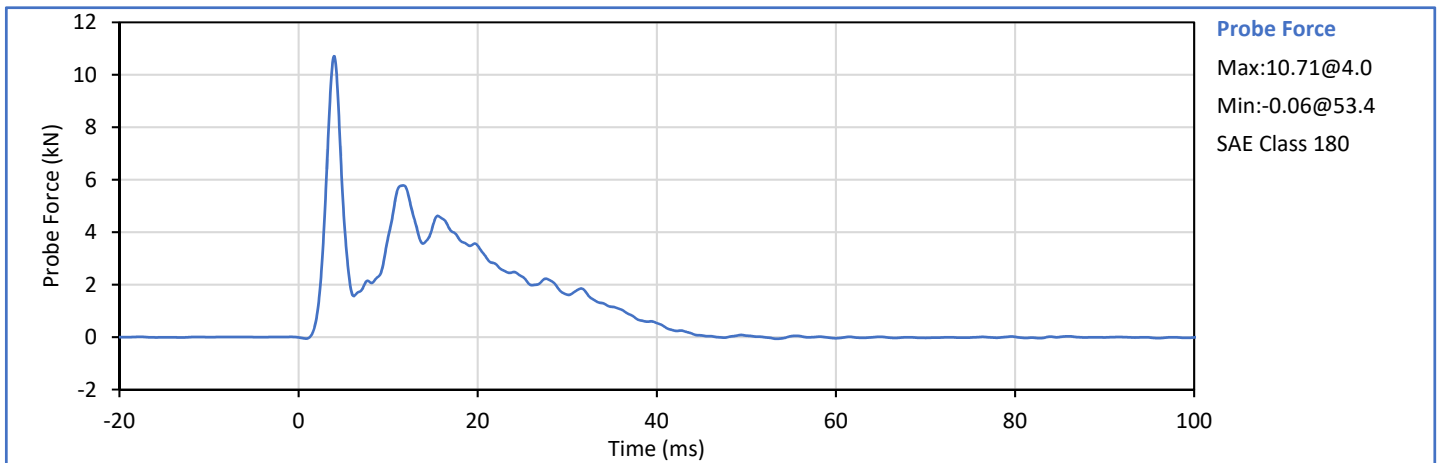
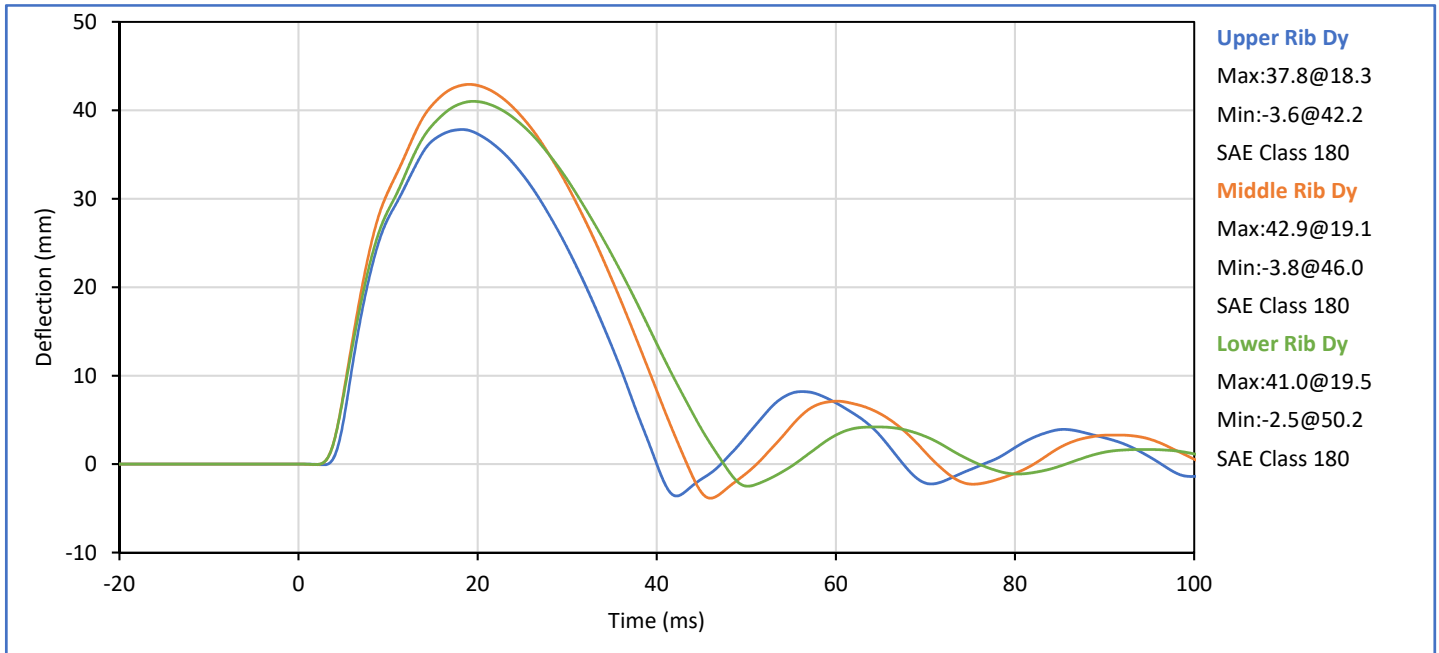
Approved By:



ATD Serial No.: F037

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Humidity	%	10	70	32	Pass
Impactor Velocity	m/s	5.40	5.60	5.54	Pass
Peak Upper Rib Dy	mm	34.0	41.0	37.8	Pass
Peak Middle Rib Dy	mm	37.0	45.0	42.9	Pass
Peak Lower Rib Dy	mm	37.0	44.0	41.0	Pass
Peak Impactor Force After 6 ms	kN	5.10	6.20	5.78	Pass
Overall Test Results					Pass



Technician: *Scotty*

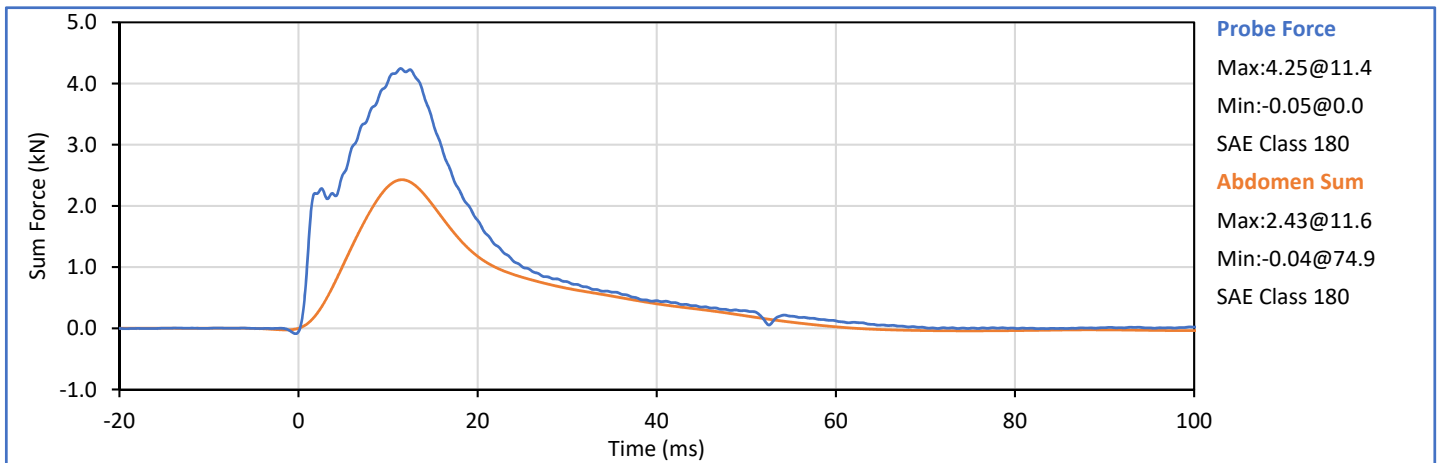
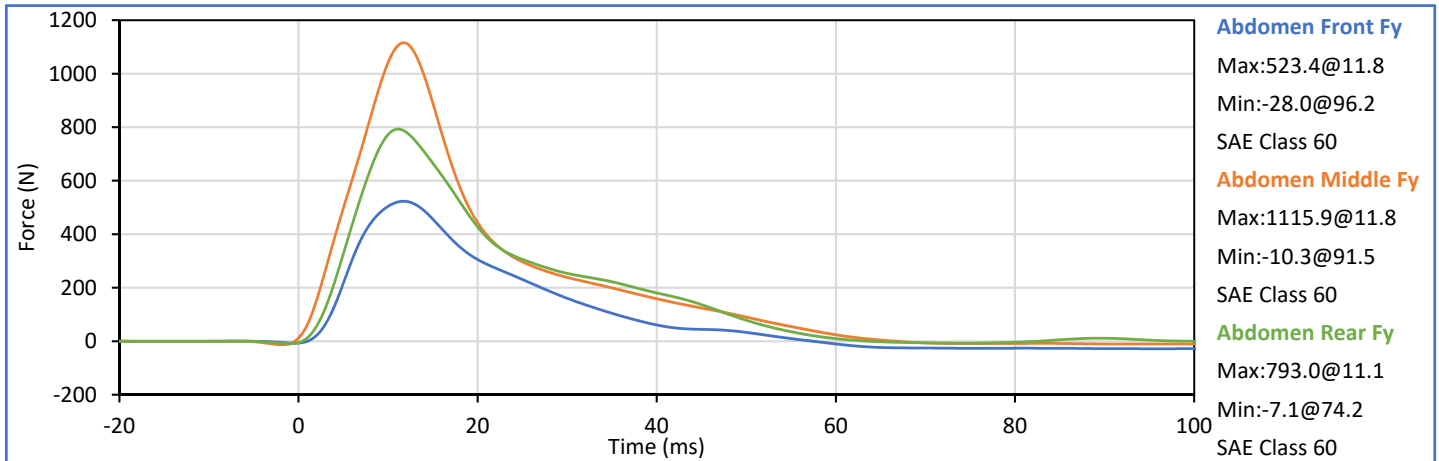
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.9	Pass
Laboratory Humidity	%	10	70	32	Pass
Impactor Velocity	m/s	3.90	4.10	3.94	Pass
Peak Impactor Force	kN	4.00	4.80	4.25	Pass
Time of Peak Impactor Force	ms	10.6	13.0	11.4	Pass
Sum of Abdomen Forces	kN	2.20	2.70	2.43	Pass
Time of Peak Sum Abdomen Force	ms	10.0	12.3	11.6	Pass
Overall Test Results					Pass



Technician: *Smith*

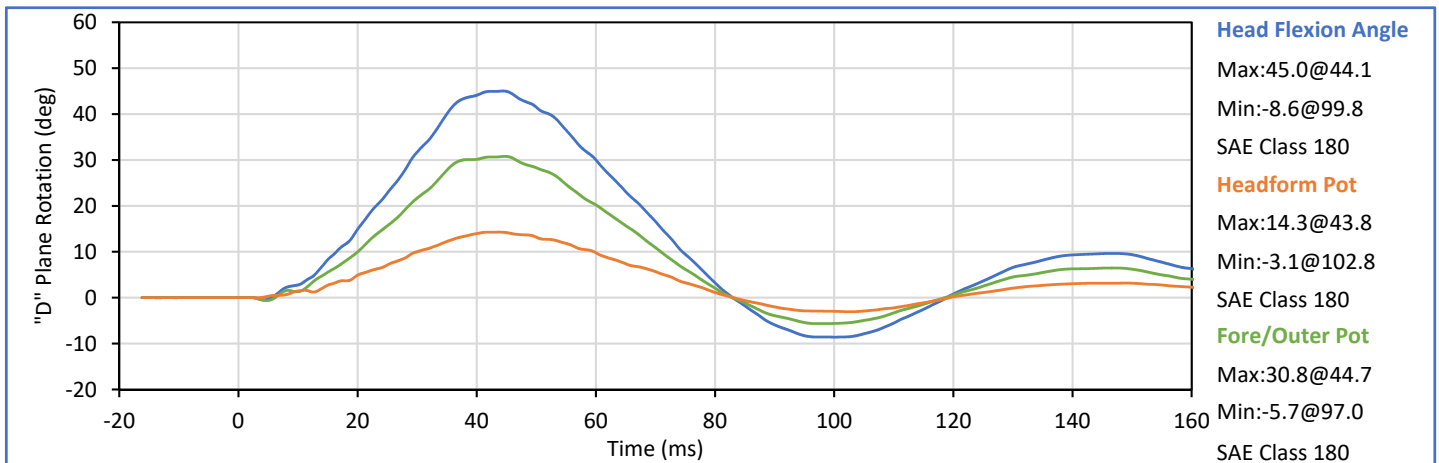
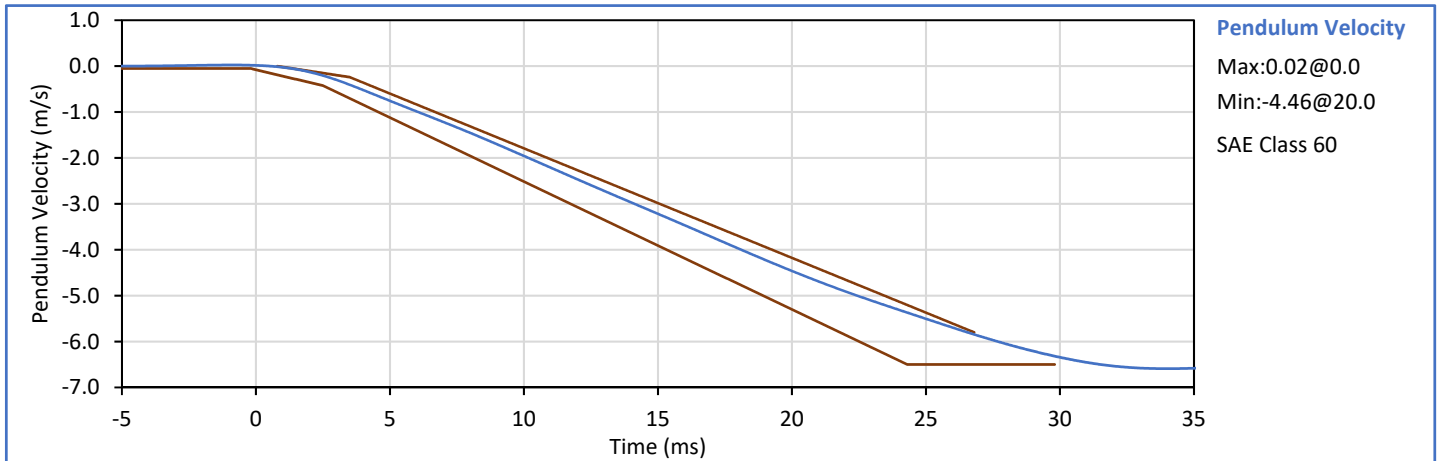
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-13

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.7	Pass
Laboratory Humidity	%	10	70	30	Pass
Pendulum Velocity	m/s	5.95	6.15	6.14	Pass
Peak Headform Flexion	deg	45.0	55.0	45.0	Pass
Time of Peak Headform Flexion	ms	39.0	53.0	44.4	Pass
Flexion Decay (Peak to zero)	ms	37.0	57.0	38.7	Pass
Overall Test Results					Pass



Technician: *Scotty*

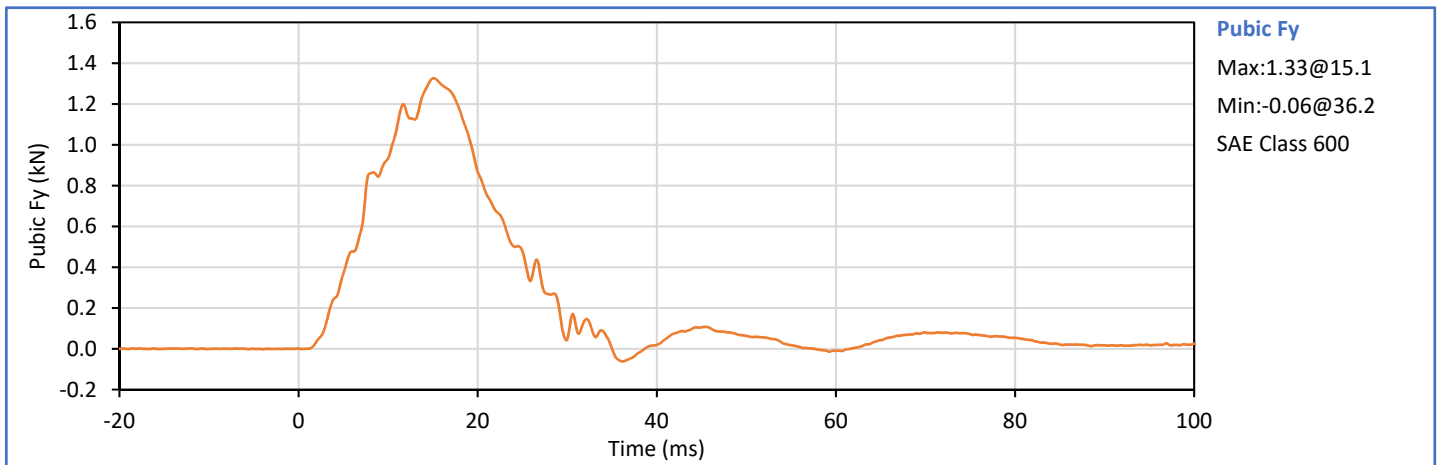
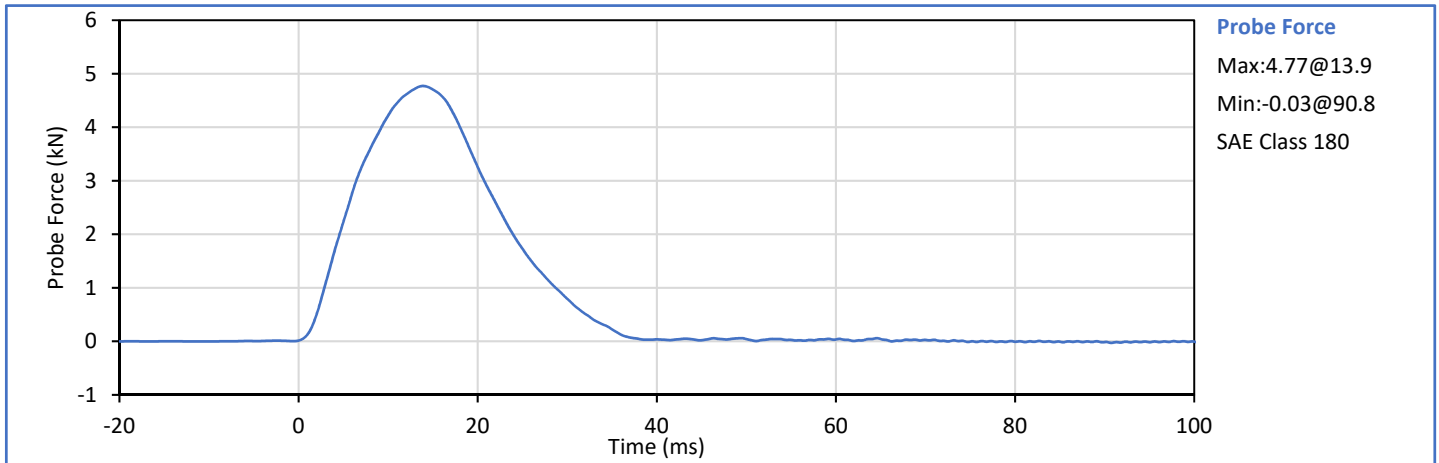
Approved By: *Wep*



ATD Serial No.: F037

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Humidity	%	10	70	30	Pass
Impactor Velocity	m/s	4.20	4.40	4.29	Pass
Peak Impactor Force	kN	4.70	5.40	4.77	Pass
Time of Peak Impactor Force	ms	11.8	16.1	13.9	Pass
Pubic Symphysis Fy	kN	1.23	1.59	1.33	Pass
Time of Peak Pubic Symphysis Fy	ms	12.2	17.0	15.1	Pass
Overall Test Results					Pass



Technician: *Scotty*

Approved By: *Wep*



**SID-IIs Small Side Impact Dummy
 External Measurements**

ATD Serial No.: 299

Test Date: 2017-11-07

Tested Parameter	Units	Spec Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
A - Sitting Height	mm	772	788	775	Pass
B - Shoulder Pivot Height	mm	437	453	450	Pass
C - Hpoint Height	mm	79	89	86	Pass
D - H Point From Seatback	mm	141	151	144	Pass
E - Shoulder Pivot From Backline	mm	97	107	100	Pass
F - Thigh Clearance	mm	119	135	126	Pass
G - Head Breadth	mm	140	148	148	Pass
H - Head Back From Backline	mm	40	46	44	Pass
I - Head Depth	mm	178	188	185	Pass
J - Head Circumference	mm	541	551	549	Pass
K - Buttock To Knee Length	mm	514	540	530	Pass
L - Popliteal Height	mm	343	369	357	Pass
K - Knee Pivot To Floor Height	mm	392	409	398	Pass
N - Buttock Popliteal Length	mm	416	442	431	Pass
O - Chest Depth W/O Jacket	mm	195	211	206	Pass
P - Foot Length	mm	216	232	221	Pass
Q - Hip Breadth (W/Pelvic Plugs)	mm	313	323	317	Pass
R - Arm Length	mm	249	259	255	Pass
S - Knee Joint To Seatback	mm	477	493	485	Pass
V - Shoulder Width	mm	341	357	350	Pass
W - Foot Width	mm	78	94	83	Pass
Y - Chest Circumference W/Jacket	mm	851	881	864	Pass
Z - Waist Circumference	mm	761	791	774	Pass
Overall Test Results					Pass

Technician: 

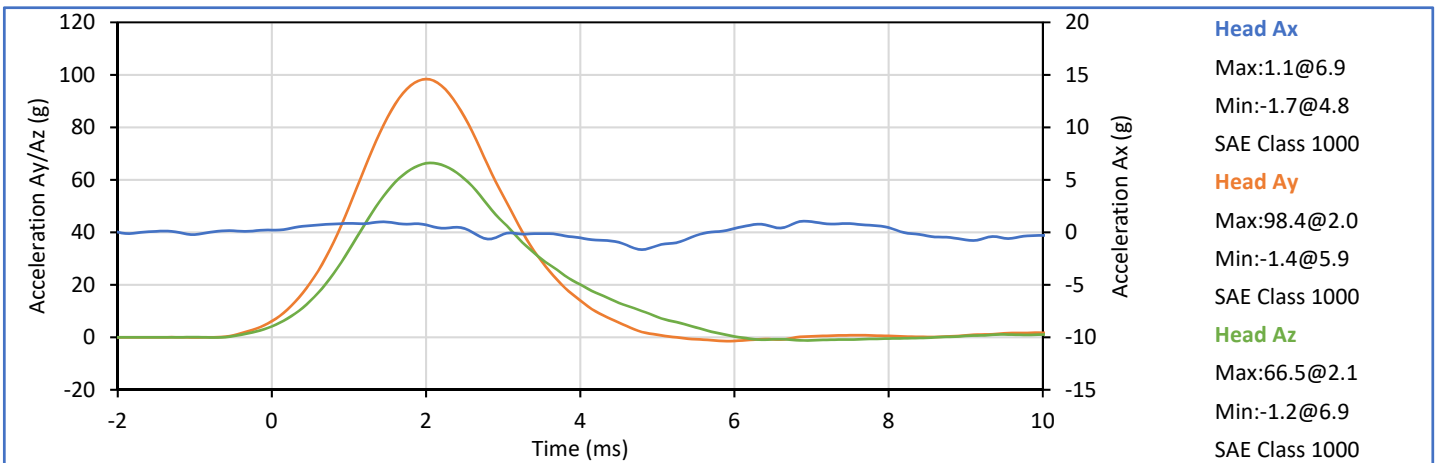
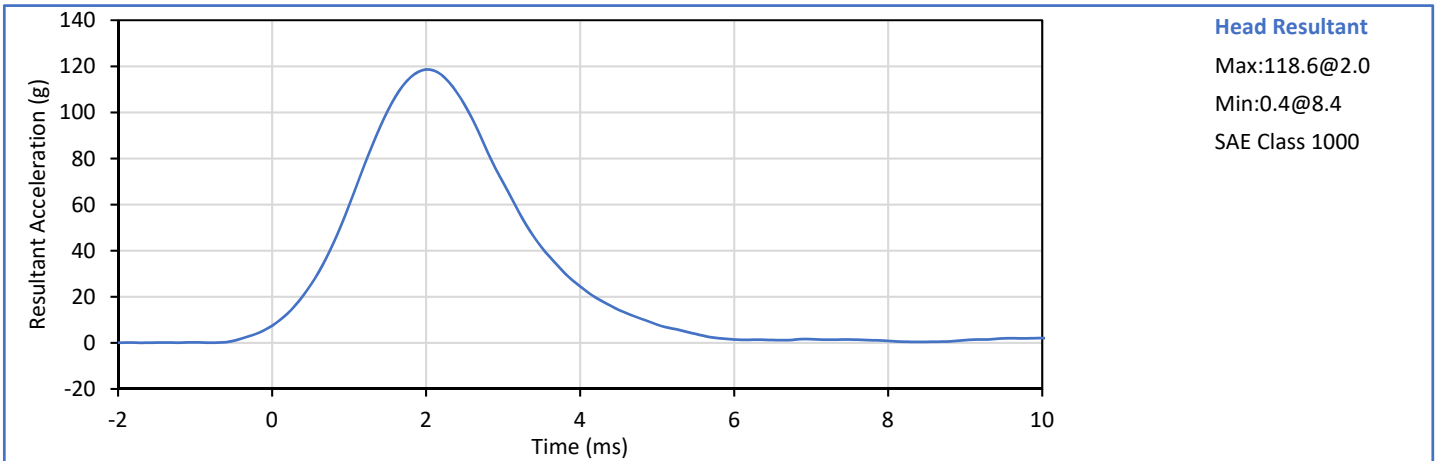
Approved By: 



ATD Serial No.: 299

Test Date: 2017-11-09

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	22.2	Pass
Laboratory Humidity	%	10	70	35	Pass
Peak Resultant Acceleration	g	115.0	137.0	118.6	Pass
Peak Head Ax	g	-15.0	15.0	-1.7	Pass
Oscillations After Main Pulse	%	0.0	15.0	1.7	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
Overall Test Results					Pass



Technician: *Smith*

Approved By: *Wep*

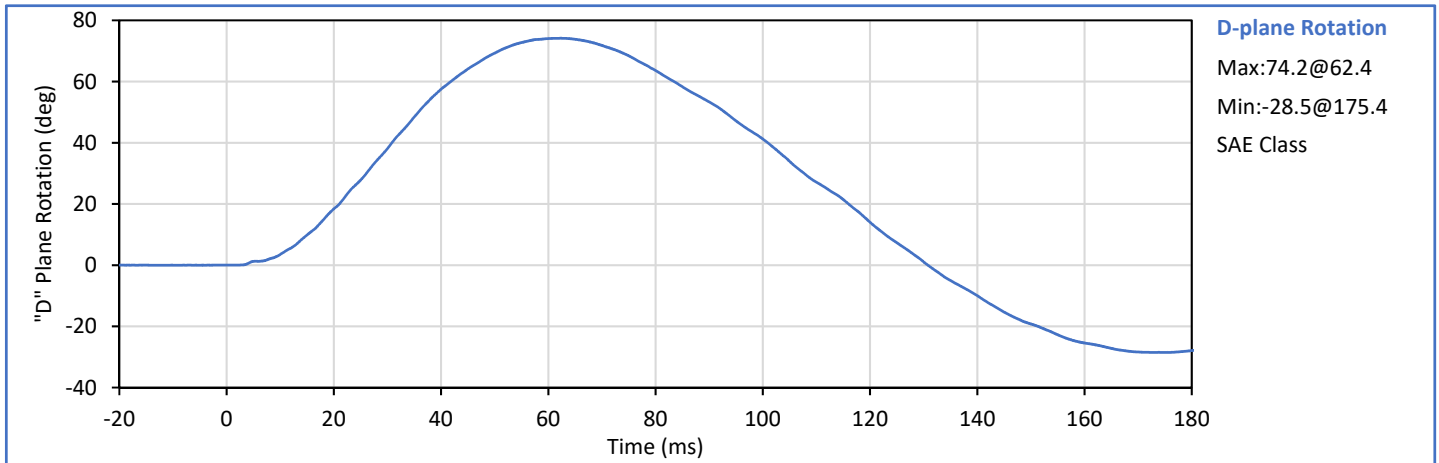
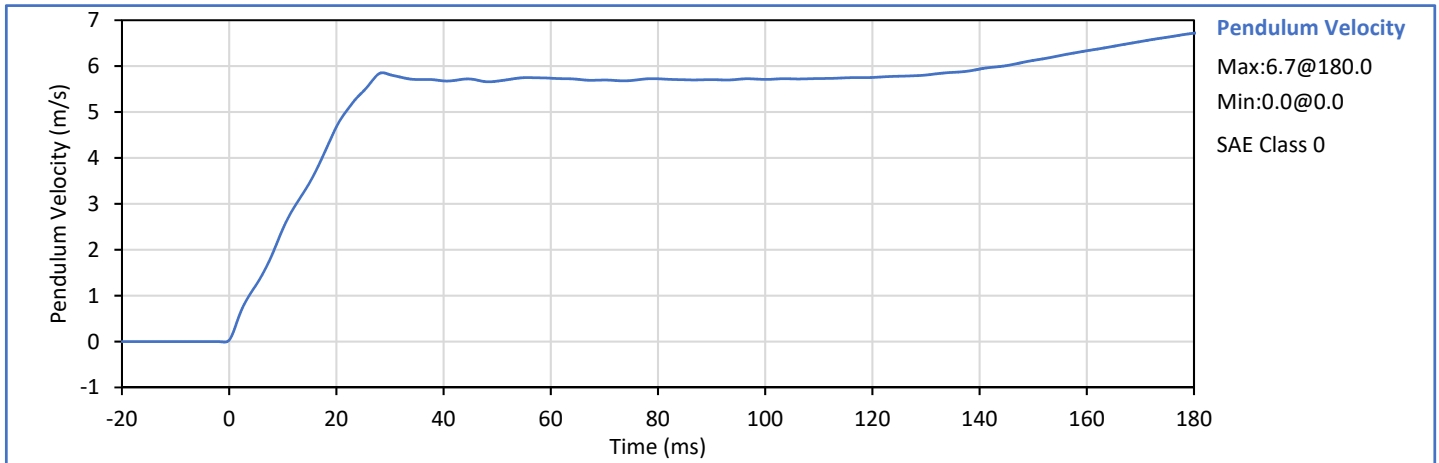


**SID-IIs Small Side Impact Dummy
 Neck Flexion**

ATD Serial No.: 299

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.7	Pass
Laboratory Humidity	%	10	70	29	Pass
Pendulum Velocity	m/s	5.51	5.63	5.59	Pass
Pendulum Decel at 10 ms	m/s	2.20	2.80	2.45	Pass
Pendulum Decel at 15 ms	m/s	3.30	4.10	3.46	Pass
Pendulum Decel at 20 ms	m/s	4.40	5.40	4.67	Pass
Pendulum Decel at 25 ms	m/s	5.40	6.10	5.45	Pass
Pendulum Decel from 25-100 ms	m/s	5.50	6.20	5.86	Pass
Peak "D" Plane Rotation	deg	71.0	81.0	74.2	Pass
Time of Peak "D" Plane Rotation	ms	50.0	70.0	62.4	Pass
Peak Occ. Condyle Moment	Nm	-44.0	-36.0	-41.2	Pass
Time of Moment Decay to 0 Nm	ms	102.0	126.0	113.2	Pass
Overall Test Results					Pass



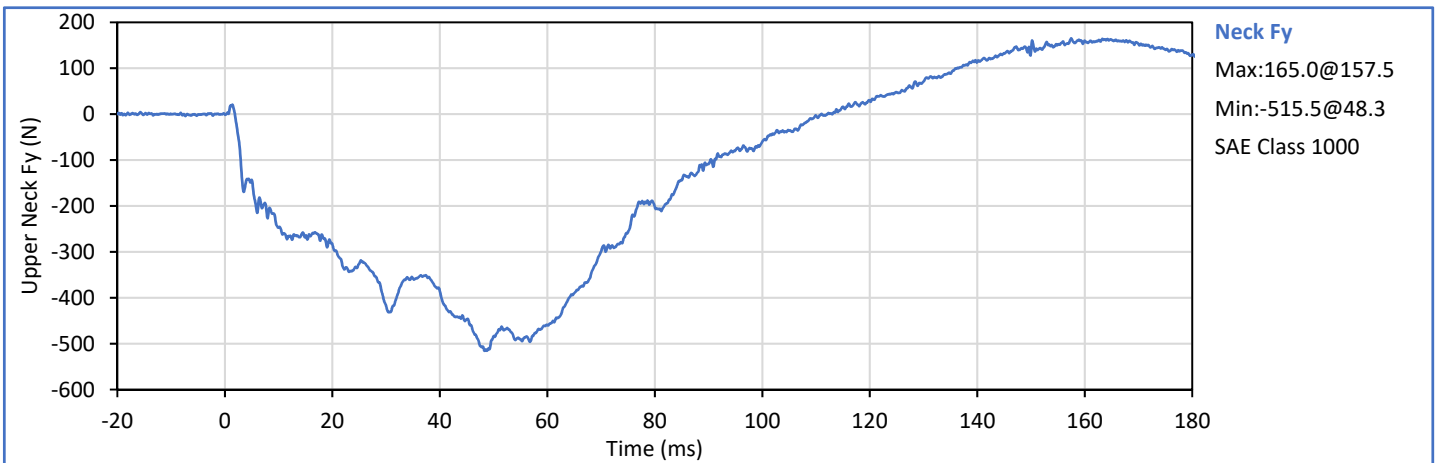
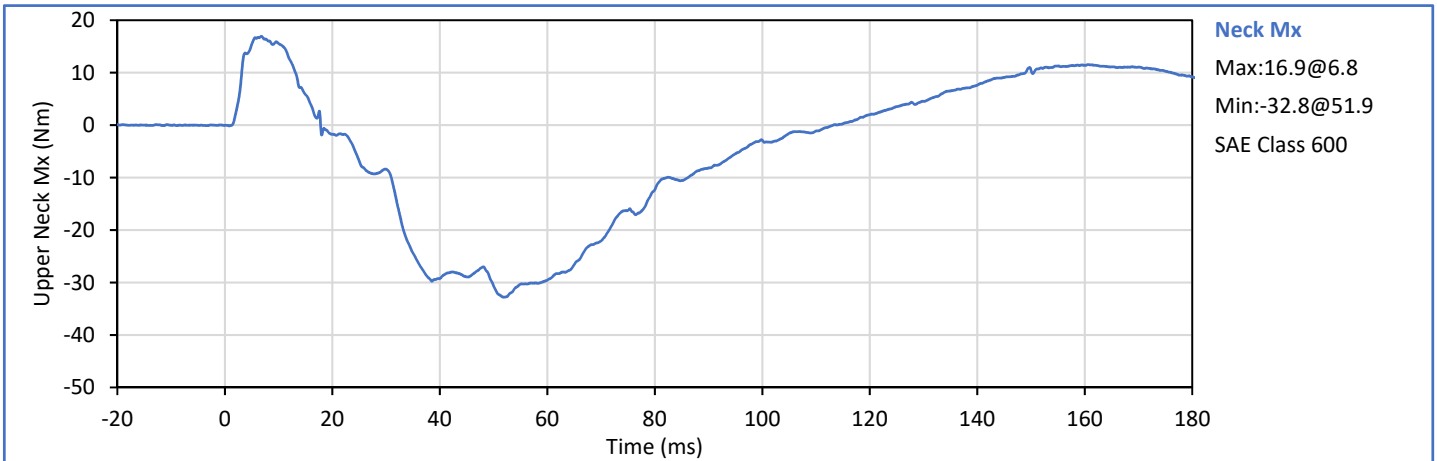
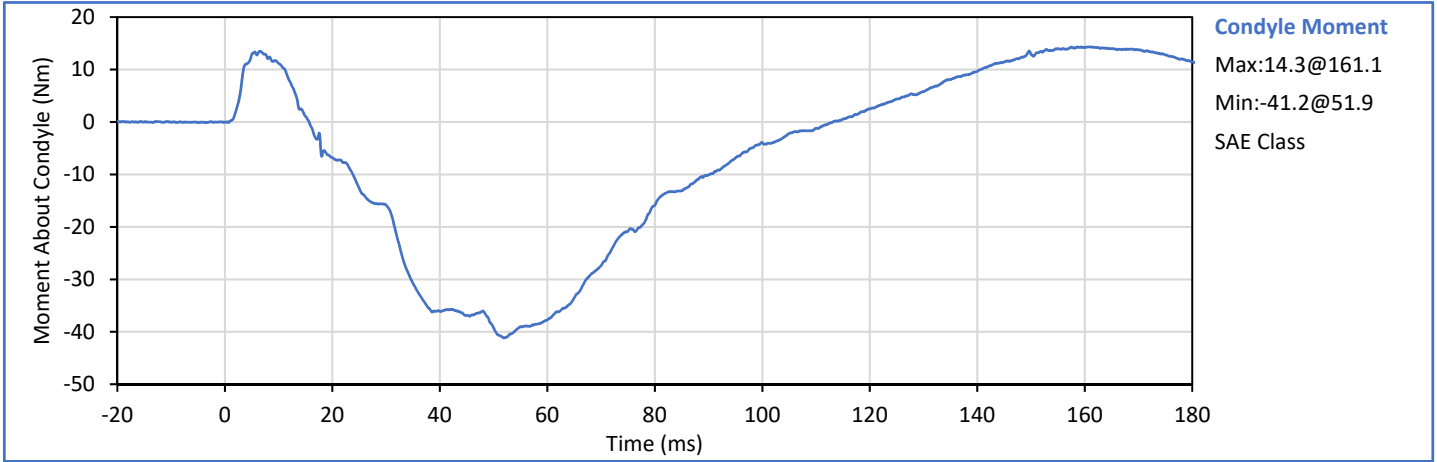
Technician: *Scotty*

Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-10

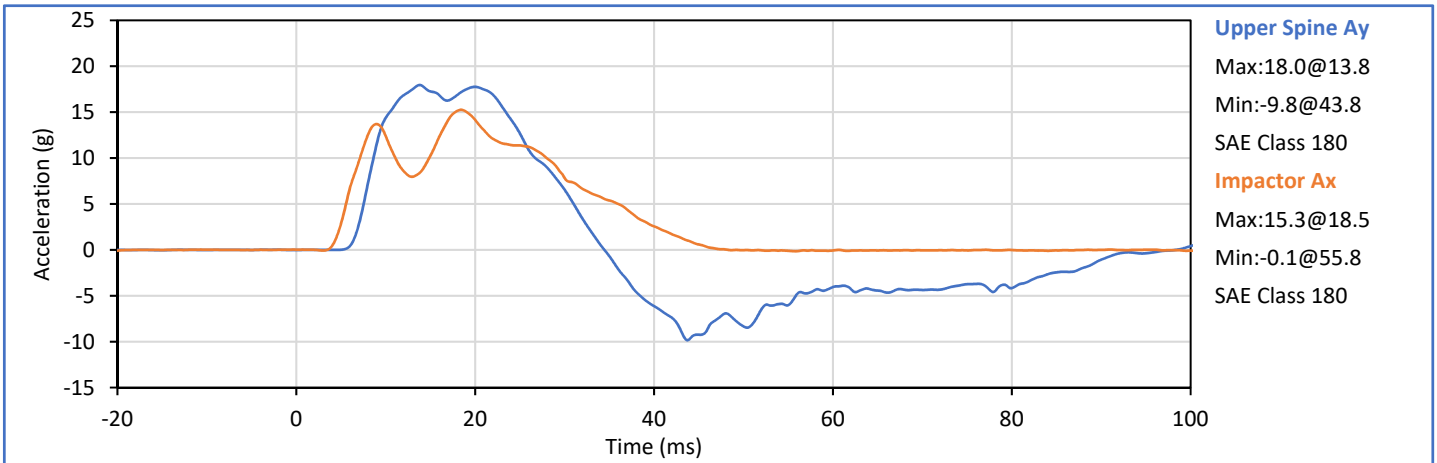
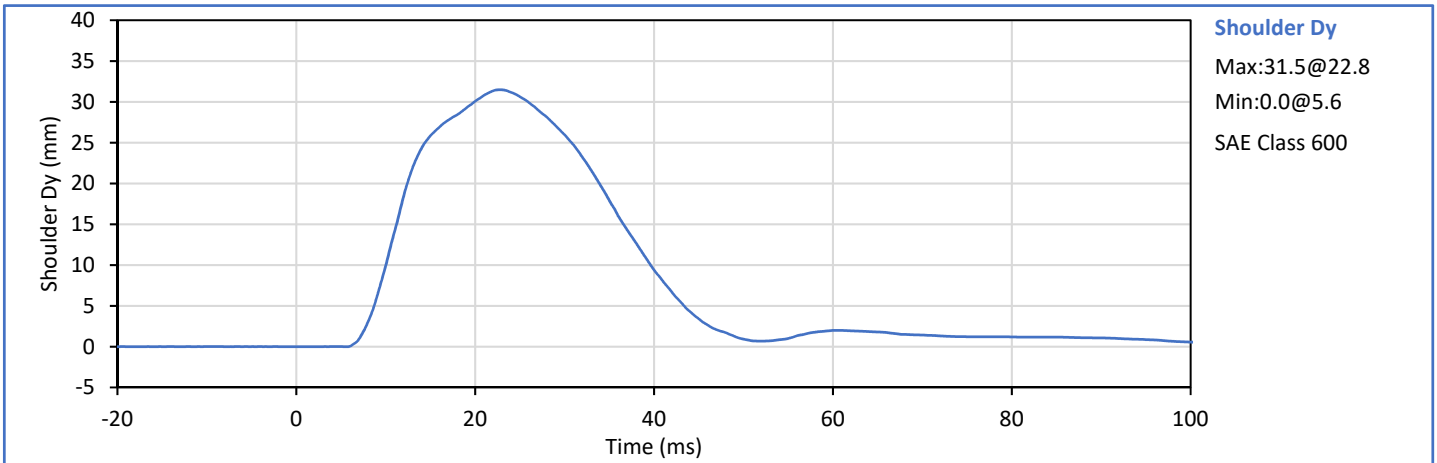




ATD Serial No.: 299

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Humidity	%	10	70	30	Pass
Impactor Velocity	m/s	4.20	4.40	4.30	Pass
Peak Shoulder Dy	mm	28.0	37.0	31.5	Pass
Peak Upper Spine (T1) Ay	g	17.0	22.0	18.0	Pass
Peak Impactor Ax	g	13.0	18.0	15.3	Pass
Overall Test Results					Pass



Technician: *Scotty*

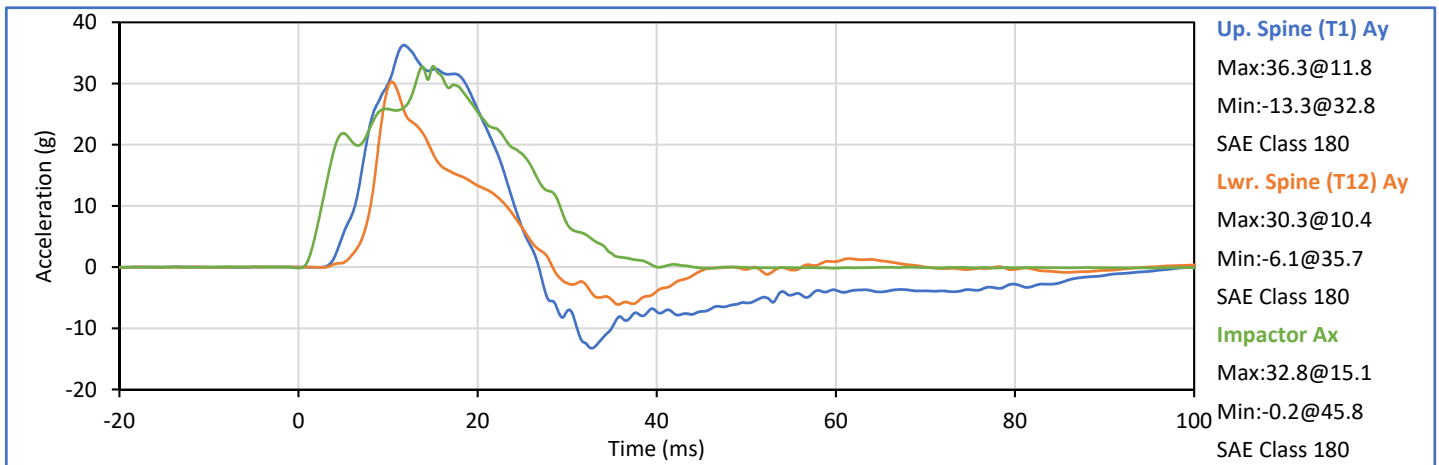
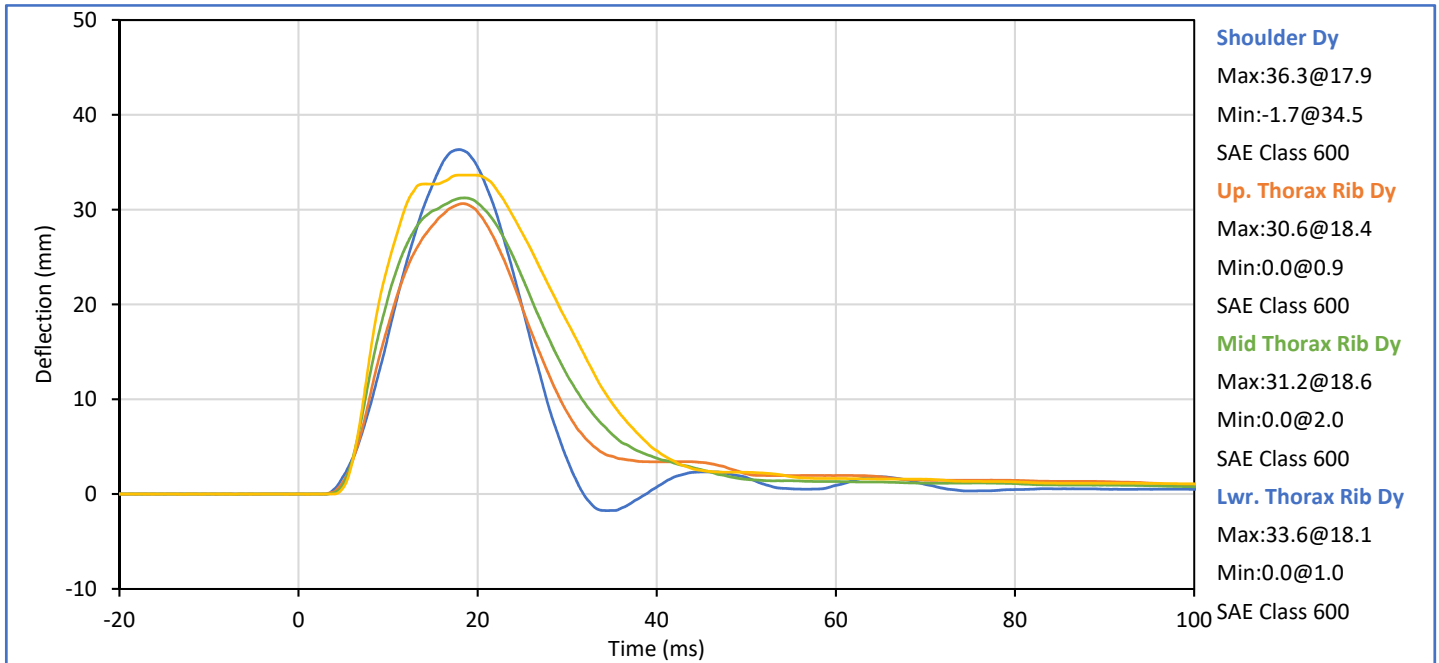
Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	20.8	Pass
Laboratory Humidity	%	10	70	29	Pass
Impactor Velocity	m/s	6.60	6.80	6.66	Pass
Peak Shoulder Dy	mm	31.0	40.0	36.3	Pass
Peak Upper Rib Dy	mm	25.0	32.0	30.6	Pass
Peak Middle Rib Dy	mm	30.0	36.0	31.2	Pass
Peak Lower Rib Dy	mm	32.0	38.0	33.6	Pass
Peak Upper Spine (T1) Ay	g	34.0	43.0	36.3	Pass
Peak Lower Spine (T12) Ay	g	29.0	37.0	30.3	Pass
Peak Impactor Ax	g	30.0	36.0	32.8	Pass
Overall Test Results					Pass



Technician: *Scotty*

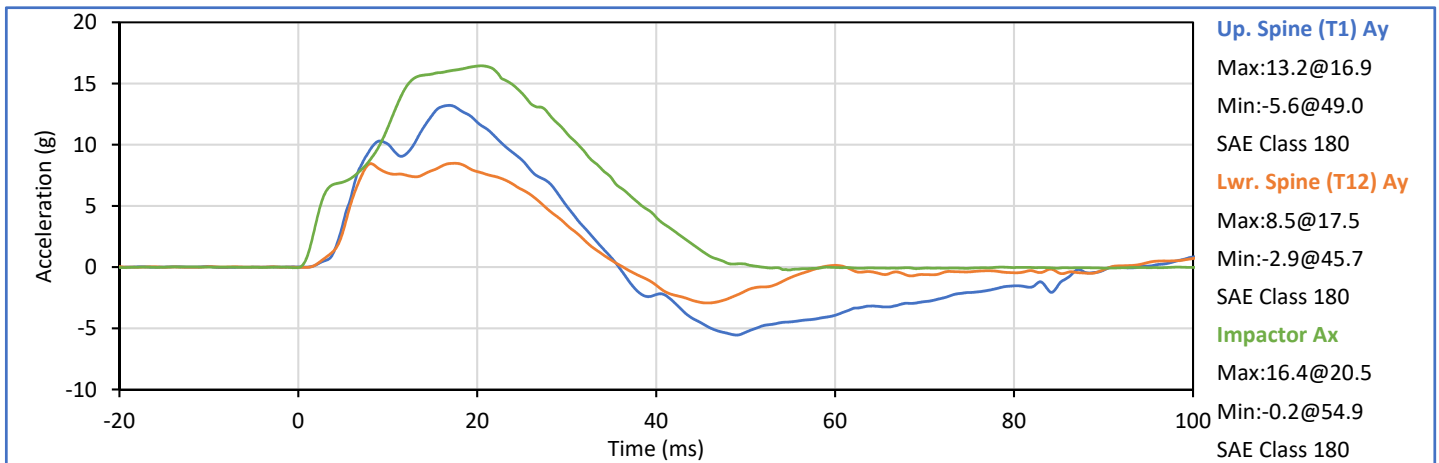
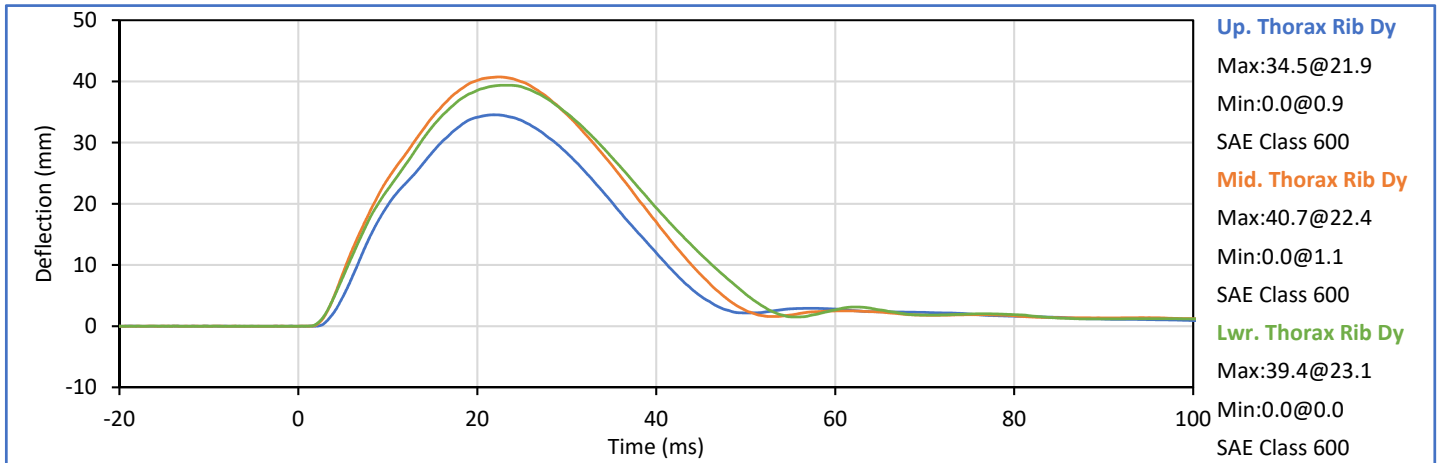
Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.5	Pass
Laboratory Humidity	%	10	70	30	Pass
Impactor Velocity	m/s	4.20	4.40	4.29	Pass
Peak Upper Rib Dy	mm	32.0	40.0	34.5	Pass
Peak Middle Rib Dy	mm	39.0	45.0	40.7	Pass
Peak Lower Rib Dy	mm	35.0	43.0	39.4	Pass
Peak Upper Spine (T1) Ay	g	13.0	17.0	13.2	Pass
Peak Lower Spine (T12) Ay	g	7.0	11.0	8.5	Pass
Peak Impactor Ax	g	14.0	18.0	16.4	Pass
Overall Test Results					Pass



Technician: *Scotty*

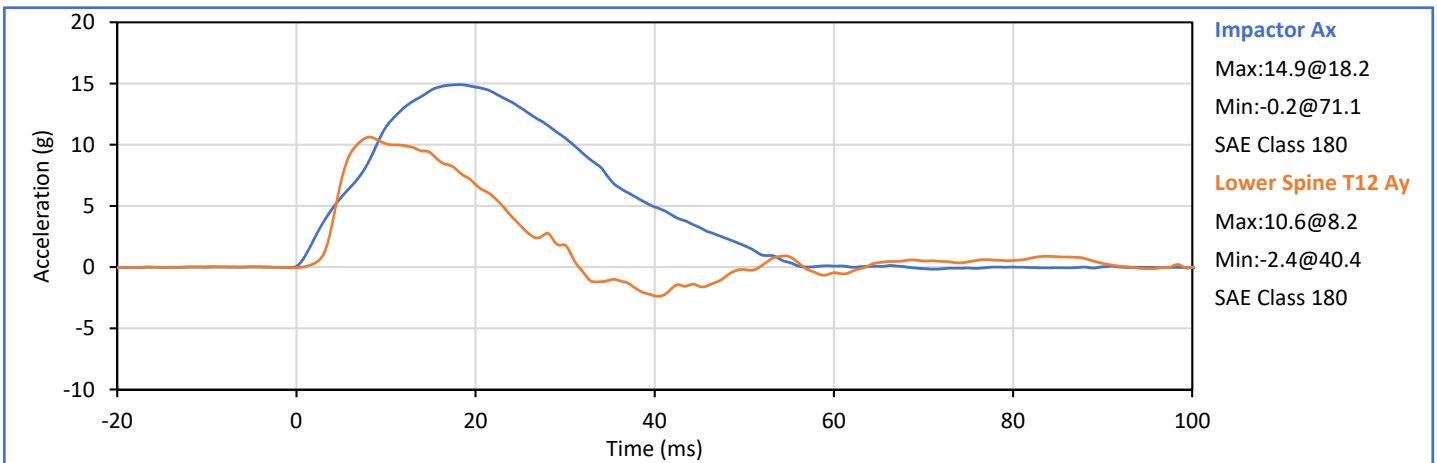
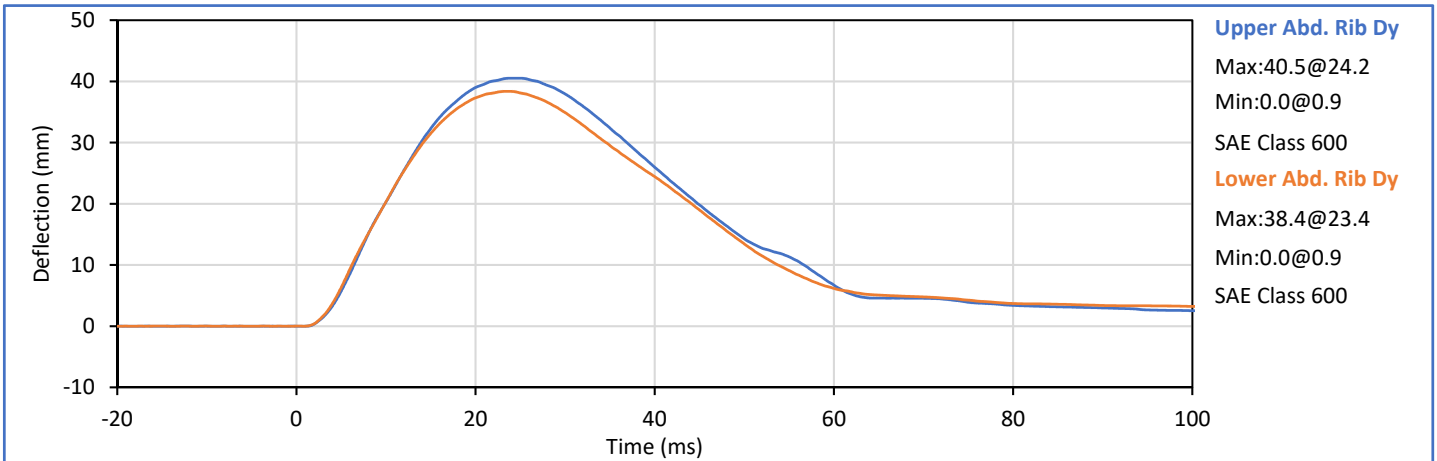
Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.7	Pass
Laboratory Humidity	%	10	70	30	Pass
Impactor Velocity	m/s	4.20	4.40	4.31	Pass
Peak Upper Abdomen Rib Dy	mm	36.0	47.0	40.5	Pass
Peak Lower Abdomen Rib Dy	mm	33.0	44.0	38.4	Pass
Peak Lower Spine T12 Ay	mm	9.0	14.0	10.6	Pass
Peak Impactor Ax	g	12.0	16.0	14.9	Pass
Overall Test Results					Pass



Technician: *Scotty*

Approved By: *Wep*



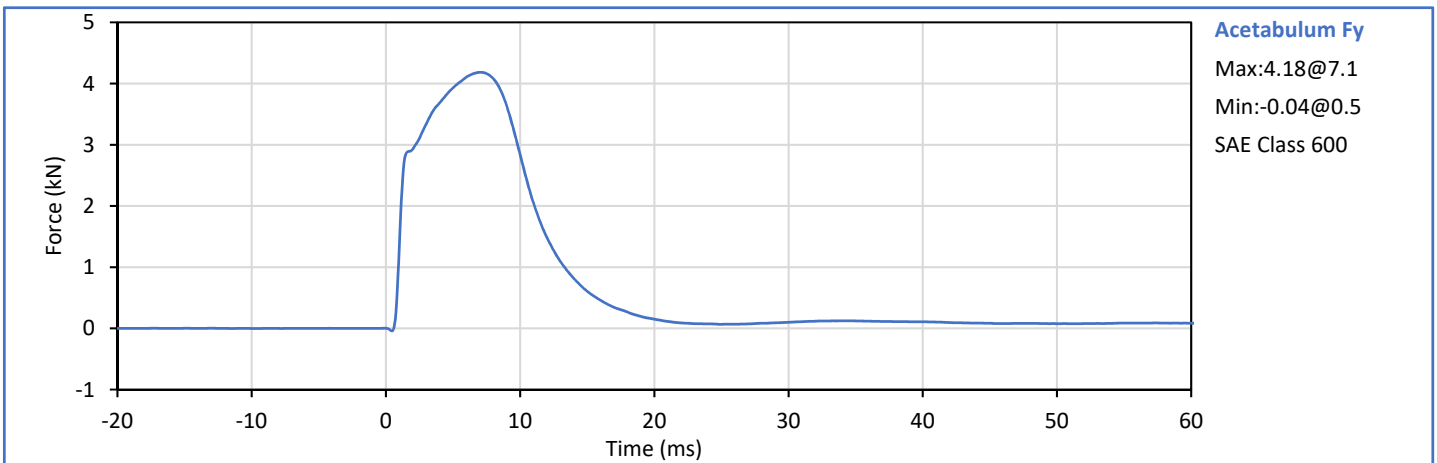
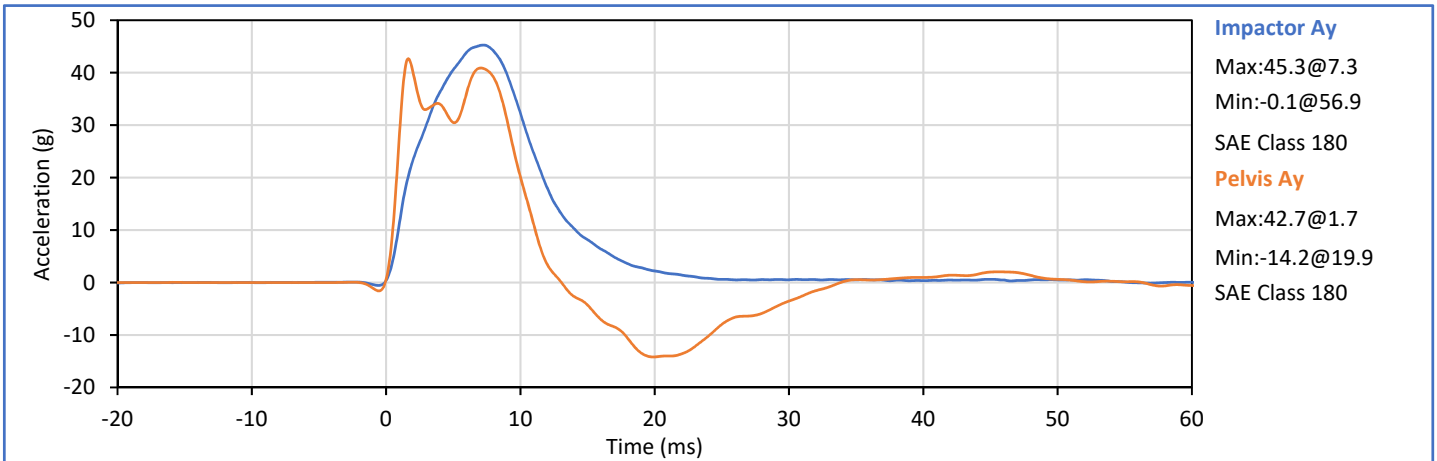
SID-IIs Small Side Impact Dummy
Pelvis Acetabulum Impact

ATD Serial No.: 299

Test Date: 2017-11-10

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	22.0	Pass
Laboratory Humidity	%	10	70	33	Pass
Impactor Velocity	m/s	6.60	6.80	6.68	Pass
Peak Acetabulum Fy	kN	3.600	4.300	4.184	Pass
Pelvis Ay after 6ms	g	34.0	42.0	40.9	Pass
Peak Impactor Ax	g	38.0	47.0	45.3	Pass
Overall Test Results					Pass

Pelvis Plug S/N: 70806 (HIS)



Technician: *Scotty*

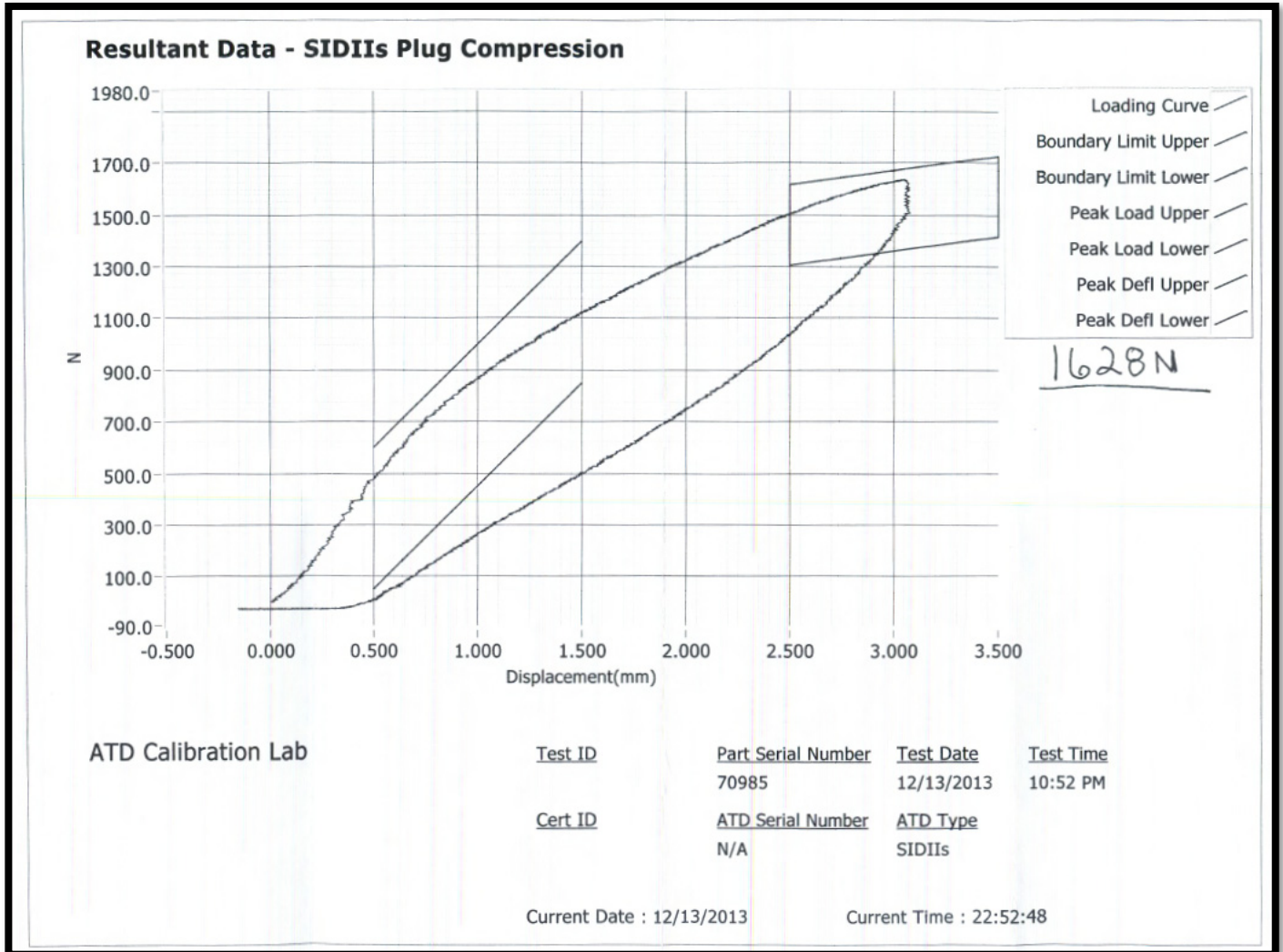
Approved By: *Wep*



ATD Serial No.: 299

Test Date: 2017-11-10

Pelvis Plug S/N: 70806 (HIS)





SID-IIs Small Side Impact Dummy
Pelvis Iliac Impact

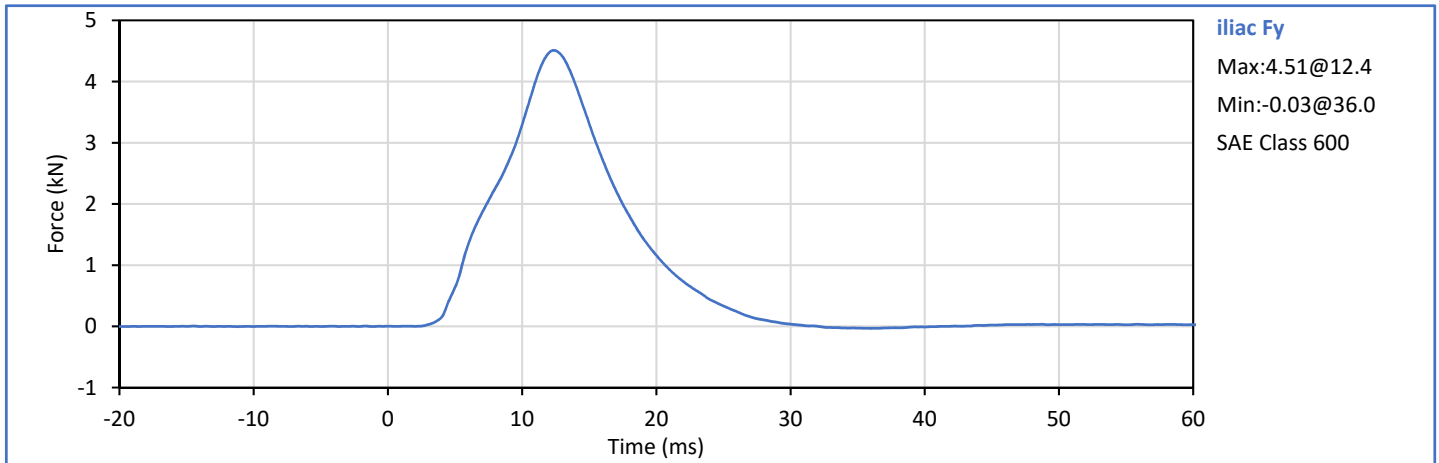
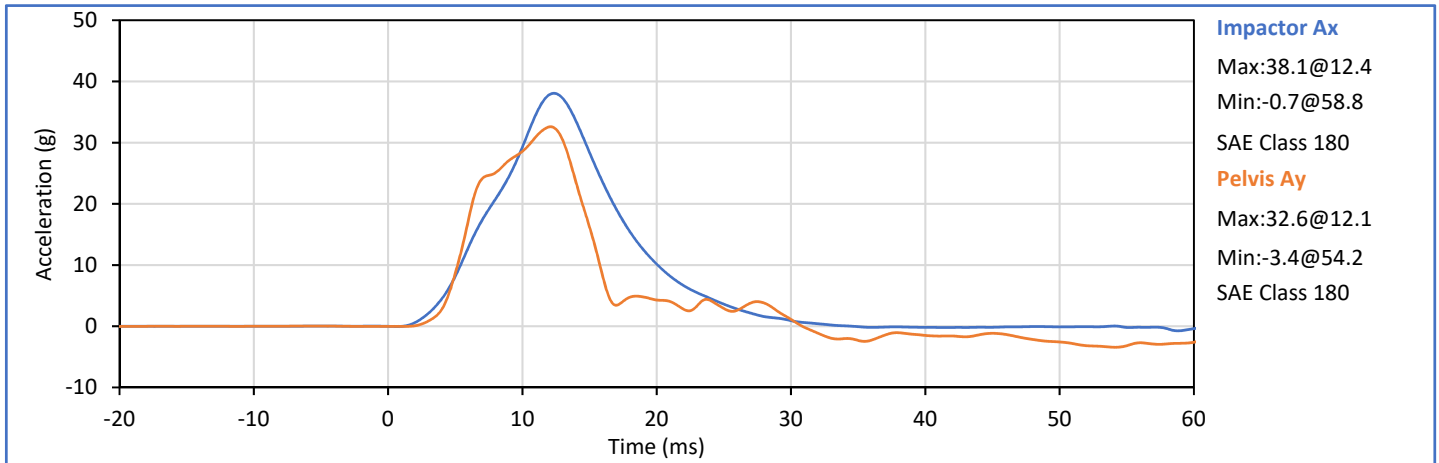
ATD Serial No.: 299

Test Date: 2017-11-11

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.5	Pass
Laboratory Humidity	%	10	70	33	Pass
Impactor Velocity	m/s	4.20	4.40	4.24	Pass
Peak Acetabulum Fy	kN	4.100	5.100	4.510	Pass
Pelvis Ay	g	28.0	39.0	32.6	Pass
Peak Impactor Ax	g	36.0	45.0	38.1	Pass
Overall Test Results					Pass

Pelvis Plug S/N: 71052 (HIS) *

* Plug is not impacted and remains certified



Technician:

Approved By:

APPENDIX D
TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION DATA

Table 1 - Driver ATD Instrumentation

Position: Driver
 ATD Type: ES-2re
 ATD S/N: F037

Sensor Location	Sensor S/N	Mfr	Last Cal
Head Acceleration X Primary	P58858	Endevco	2017-02-21
Head Acceleration Y Primary	P58865	Endevco	2017-02-12
Head Acceleration Z Primary	P58867	Endevco	2017-02-03
Head Acceleration X Redundant	P58859	Endevco	2017-02-10
Head Acceleration Y Redundant	P58866	Endevco	2017-02-08
Head Acceleration Z Redundant	P58873	Endevco	2017-01-15
Upper Thorax Rib Deflection Y	209	Denton	2017-02-10
Middle Thorax Rib Deflection Y	210	Denton	2017-02-10
Lower Thorax Rib Deflection Y	207	Denton	2017-02-10
Anterior Abdominal Force Y	1504 Fy	Denton	2017-07-25
Middle Abdominal Force Y	1505 Fy	Denton	2017-07-25
Posterior Abdominal Force Y	1506 Fy	Denton	2017-07-25
Lower Spine T12 Acceleration X	P63856	Endevco	2017-01-15
Lower Spine T12 Acceleration Y	P50063	Endevco	2017-02-04
Lower Spine T12 Acceleration Z	P51880	Endevco	2017-01-17
Pubic Symphysis Force Y	DG6784 Fy	FTSS	2017-07-25

Table 2 - Passenger ATD Instrumentation

Position: Rear Pass.
 ATD Type: SID-IIs
 ATD S/N: 299

Sensor Location	Sensor S/N	Mfr	Last Cal
Head Acceleration X Primary	P51929	Endevco	2017-06-27
Head Acceleration Y Primary	P50086	Endevco	2017-07-25
Head Acceleration Z Primary	P51931	Endevco	2017-07-28
Head Acceleration X Redundant	P68604	Endevco	2017-07-03
Head Acceleration Y Redundant	P51934	Endevco	2017-06-28
Head Acceleration Z Redundant	P58736	Endevco	2017-07-24
Head Rotation Rate X	ARS7571	DTS	2017-06-11
Head Rotation Rate Y	ARS7316	DTS	2017-06-11
Head Rotation Rate Z	ARS7330	DTS	2017-06-11
Upper Thorax Rib Deflection Y	1143	FTSS	2017-02-08
Middle Thorax Rib Deflection Y	1160	FTSS	2017-02-09
Lower Thorax Rib Deflection Y	1213	FTSS	2017-02-09
Upper Abdomen Rib Deflection Y	1218	FTSS	2017-02-09
Lower Abdomen Rib Deflection Y	1177	FTSS	2017-02-08
Lower Spine T12 Acceleration X	04I20-Z04	Entran	2017-07-22
Lower Spine T12 Acceleration Y	06A07-R08	Entran	2017-07-31
Lower Spine T12 Acceleration Z	P58795	Endevco	2017-07-02
Acetabulum Impact Side Force Y	272 Fy	Denton	2017-07-03
Iliac Wing Impact Side Force Y	284 Fy	Denton	2017-06-27

Table 3 - Vehicle Instrumentation

Sensor Location	Sensor S/N	Mfr	Last Cal
Vehicle CG Ax	A224488	MSI	2017-03-22
Vehicle CG Ay	A224486	MSI	2017-03-22
Vehicle CG Az	A227269	MSI	2017-03-22
Right Side Sill at Front Seat Ax	A224489	MSI	2017-03-22
Right Side Sill at Front Seat Ay	A224575	MSI	2017-03-17
Right Side Sill at Front Seat Az	A224510	MSI	2017-03-22
Right Side Sill at Rear Seat Ax	A224490	MSI	2017-03-22
Right Side Sill at Rear Seat Ay	A226922	MSI	2017-04-20
Right Side Sill at Rear Seat Az	A226926	MSI	2017-04-20
Left Side Sill at Front Seat Ay	A227276	MSI	2017-04-20
Left Side Sill at Rear Seat Ay	A224572	MSI	2017-03-17
Left Lower A-Pillar Ay	A224512	MSI	2017-03-22
Left Middle A-Pillar Ay	A224565	MSI	2017-03-16
Left Lower B-Pillar Ay	A224520	MSI	2017-03-22
Left Middle B-Pillar Ay	A224483	MSI	2017-03-22
Driver Seat Track at H-Point Ay	A224500	MSI	2017-03-22
Rear Seat Structure Ay	A224529	MSI	2017-03-22
Right Rear Occupant Comp. Ay	A224516	MSI	2017-03-22
Engine Block Top Ax	A227260	MSI	2017-04-20
Engine Block Top Ay	A224532	MSI	2017-03-16
Rear Floopan Above Axle Ax	A224493	MSI	2017-03-22
Rear Floopan Above Axle Ay	A224503	MSI	2017-03-22
Rear Floopan Above Axle Az	A224491	MSI	2017-03-22

Table 4 - Moving Deformable Barrier (MDB) Instrumentation

Sensor Location	Sensor S/N	Mfr	Last Cal
MDB CG Ax	A201199	MSI	2017-10-30
MDB CG Ay	A200246	MSI	2017-10-30
MDB CG Az	A199889	MSI	2017-10-30
MDB Left Side at Rear Axle Ax	A203298	MSI	2017-10-30
MDB Left Side at Rear Axle Ay	A200229	MSI	2017-10-30